

1: u-blox NANO-S RPMA module

Interfacing this LCD display to display ASCII characters is simple. We will use an 8 bit data interface and use the S bus Port Write strobe for the LCD "E" enable pulse.

There is one slight complication however. This and most other similar LCD displays need to be first configured upon power up. There are numerous ways the two lines of characters can be displayed. Here is a list of a few: There are two "Registers" within the unit. When the RS pin pin 4 is low any data sent to the unit is interpreted as an instruction see above. When RS is high any data sent to the unit is understood to be a display character. You can go back and forth between these two registers any time. We will "power up" the LCD unit to display a single line, 16 characters across. The cursor will be on the RHS and as each character is entered the characters will scroll leftwards one character. At any one time the last 15 characters entered will be displayed. For this we need to send the following bytes to the unit with RS low. CPU to send these commands upon power up. We will write a small Verilog module LCD We then convert it to a. This file is available at the bottom of this page. The key section is displayed here: If you used our UART. The only complication is that we need to switch the 8 bit data input lines to the LCD display from the LCD module to the 8 bit data line from the S bus port 68H after the initialization. We do this with a 2: The last line in the LCD You can later set it high again and output characters to the LCD display. Please study the files below to understand completely what is going on. Bugs There is a minor bug in the program in that if you reinitialize the LCD display ie. More code needs to be added to reset the LCD upon reset.

2: CLOUD CDI-S INSTALLATION MANUAL Pdf Download.

You can for example see/export the Verilog code that makes up a complex BDF module or you can convert a Verilog A simple UART port interface to the S Bus.

Originally, Verilog was only intended to describe and allow chip hardware simulation. The automated synthesis of subsets of the language to physically realizable gates etc. Verilog stands for the words "verification" and "logic". The last major version appeared in VHDL was originally developed for the U. S Department of Defense in order to document the behavior of the ASIC chips that supplier companies were including in equipment. Because of this background much of the syntax was based on the Ada programming language. The language has undergone numerous revisions and has a variety of sub-standards associated with it that augment or extend it in many ways, the last major release being in Usage between the two tends to be polarized. Overlaid upon this are the chip "hardware camps". However there are two dominant players Xilinx and Altera. Much of the information on the web still appears under the name Altera. Both groups by now seem to have endless variations of their FPGA chip families. The major ones are: Both companies provide extensive software to program their FPGAs. The full blown "IDEs" are quite expensive to license but fortunately both companies now supply free "lite" versions. These lite versions are way more than adequate for our needs. There are two fundamental ways these days you can program these chips. The latter produces a special file called a "Block Diagram File". The whole process is somewhat like writing a web site page. Again, usage between the two approaches by people tends to be polarized. You just supply the wire or bus connections -- which you draw as lines. It would take me months of learning to do the equivalent in raw Verilog code. I will illustrate this below. However first we have to decide on the hardware and software! A major factor in the choice of the Cyclone IV is that it is available as a socketed adaptor board. The company WaveShare supplies a number of these adaptor boards. Clearly soldering chips like this is outside the capabilities of most of us. Its schematic can be seen here. This brings me to another "catch" with FPGAs. While the chips can be programmed and reprogrammed indefinitely, all the information is lost when the power is turned off. This is essentially an SPI Flash device, with the physical interface consisting of the signals: The rest is your own FPGA program. One other issue using most FPGAs is the voltage s they require. The Cyclone IV requires 1. Normally one would have to supply 3 voltage regulators on a PC board. Finally we come to the last hurdle; With a 3. We have seen this problem before with our Edison and Edison II boards where in that case we had to shift from 1. Fortunately shifting from 3. A specialized 74LVC chips is built for this purpose. We have however to blanket all pins on the FPGA with this chip. One thing that actually takes a bit of time to realize is how programmable these chips are. With that number of GPIO pins one feels like a kid in a candy store. These pins BTW can be configured as inputs, outputs or bidirectional. Later we will work up to more complete situations where the board will act as a true CPU driven bus slave or indeed a bus master. Here is a very oversimplified diagram of the board layout. At any time one has absolute control and access to any S bus line. In a bus master configuration it could be in fact be the only CPU in the S bus. The board also has a connector P11 for a ribbon cable connection to a daughter S board with 8 direct connections 3. Of course you can also add another top connector from the "patch" area to extend the boards use to a second board. A Four layered Board Early prototype versions of this board were 2 layered boards. However I quickly noticed that the numerous level shifter 74LVCs required a major portion of the boards real estate. That board was even worse! In the end I decided to go with a 4 layered PC board. On an FPGA everything is potentially happening at once. Good FPGA programmers take years to excel and currently are in high demand. Timing and power distributions across the chip almost become an art form. Fortunately out needs will be far simpler. Also there seems to be an excellent community of experienced people ready to help -- beginners. I have found the Altera forum to be very useful and helpful. However by far the best way to get started is to look at a few YouTube demonstrations. A text summary is provided here. If you cannot get to that YouTube video you can directly view it in the video below. Note, click on the "full screen icon" for easy viewing. Use ESC to return.

3: Java Interfaces

S I/O system S I/O is the central process interface for Advant Controller series process controllers. Thanks to built-in cable-marshalling facilities and parallel.

Companies for which I have insufficient information to add a section currently. Please help if you have manuals or pictures. They were located in San Carlos, CA. They made a 32K static RAM board as well as some prototype boards. They were located in La Canada, CA. They were located in Hayward and best known for their S Extender Board. They were located in Westlake Village, CA. They were located in Palo Alto, CA. They made high resolution graphic display and image capture S boards. For example see Microsystems , Vol 4, 10, p They were locate in Canoga Park CA. They advertised a series of static memory boards in See Microsystems Vol 1, 6 p They were located in Arlington VA. See Microsystems Vol 3, 2, p They were located in Los Altos CA. See Microsystems Vol 3, 4,p They were locate in Carmichael CA. They came out in See Microsystems Vol 2, 6, p They were located in Oklahoma City OK. See Microsystems Vol 5, 4, p They were located in Los Angeles CA. They sold an interesting looking 8 port parallel, 2Serial port S board. The board could be memory or IO mapped. See Microcomputing Feb p They were locaterd in Tallahassee, FL. They made an unusual S board. It was a special character generator board to work with other video boards. They were located in Laguna Hills CA. They used the HD chip instead of a Z See MSJ Vol , 5, p They were located in Columbia MO. They briefly came out with a very flexible S FDC in See MSJ Vol 5, 4, p They had a number of interesting S boards around They were located in San Leandro, CA. See for example Microsystems Feb , Vol 4, 2, p They were located in San Jose, CA. They were located in Fresno, CA. They had a Z80 SBC master and slave board and a 4 port serial board. See Microsystems , Vol 3, 4, p1. They were located in Fountain Valley, CA. They came late into the game but had some good SBC boards. See S journal, Spring , Vol11, 3 p9. They were located in Hoffman Estates IL. They were located in San Jose CA. All I have so far is an advertisement. Please help if you have a picture.

4: QTEK S USER MANUAL Pdf Download.

Welcome to the MSI USA website. MSI designs and creates professional gaming devices.

Harry Garland and Roger Melen, co-founders of Cromemco, holding S backplane The S bus is a passive backplane of pin printed circuit board edge connectors wired in parallel. The bus signal definitions closely follow those of an microprocessor system, since the Intel microprocessor was the first microprocessor hosted on the S bus. The lines of the S bus can be grouped into four types: These were linear regulators which were commonly mounted on heat sinks. The bi-directional 8-bit data bus of the Intel was split into two unidirectional 8-bit data buses. Later these two 8-bit busses would be combined to support a bit data width for more advanced processors. The address bus was bits wide in the initial implementation and later extended to bits wide. A bus control signal could put these lines in a tri-state condition to allow direct memory access. The Cromemco Dazzler, for example, was an early S card that retrieved digital images from memory using direct memory access. Clock and control signals were used to manage the traffic on the bus. For example, the DO Disable line would tristate the address lines during direct memory access. Unassigned lines of the original bus specification were later assigned to support more advanced processors. For example, the Zilog Z processor had a non-maskable interrupt line that the Intel processor did not. One unassigned line of the S bus then was reassigned to support the non-maskable interrupt request. It used a Motorola processor with co-processor and 16 Kbytes of high-speed cache memory. During the design of the Altair, the hardware required to make a usable machine was not available in time for the January launch date. The designer, Ed Roberts, also had the problem of the backplane taking up too much room. Attempting to avoid these problems, he placed the existing components in a case with additional "slots", so that the missing components could be plugged in later when they became available. The backplane was split into four separate cards, with the CPU on a fifth. He then looked for an inexpensive source of connectors, and he came across a supply of military surplus pin edge connectors. The pin bus was created by an anonymous draftsman, who selected the connector from a parts catalog and arbitrarily assigned signal names to groups of connector pins. Most of these used the same bus layout as the Altair, creating a new industry standard. These companies were forced to refer to the system as the "Altair bus", and wanted another name in order to avoid referring to their competitor when describing their own system. Melen went over to them to convince them to adopt the same name. He had a beer in his hand and when the plane hit a bump, Melen spilt some the beer on Marsh. Marsh agreed to use the name, which Melen ascribes to him wanting to get Melon to leave with his beer. More board space was occupied by signal conversion logic. Nonetheless by, eleven different processors were hosted on the S bus, from the 8-bit Intel to the bit Zilog Z There was also a need to extend the bus so that it could support processors more capable than the Intel used in the original Altair Computer. This proposed standard documented the 8-bit data path and bit address path of the bus and stated that consideration was being given to extending the data path to 16 bits and the address path to 24 bits. The success of these computers cut deeply into the market for S bus products. Banks of S bus computers were used, for example, to process the trades at the Chicago Mercantile Exchange; the United States Air Force deployed S bus machines for their mission planning systems. Introduction to Microprocessor System Design. Although many other processors have been adapted to the S bus, the bus signal definitions closely follow those of an system. Fire in the Valley: The Making of the Personal Computer Second ed. Homebrew Computer Club Newsletter. Microprocessors - From Chips to Systems. Libes, Sol May Extending the S bus to 24 address bits and 16 data bits was recommended by Dave Gustavson. Exactly how this will be done is presently under consideration.

5: S Protein by Immunohistochemistry

*S Protein Reference Number * Component test codes cannot be used to order tests. The information provided here is not sufficient for interface builds; for a complete test mix, please click the sidebar link to access the Interface Map.*

Next Page An interface is a reference type in Java. It is similar to class. It is a collection of abstract methods. A class implements an interface, thereby inheriting the abstract methods of the interface. Along with abstract methods, an interface may also contain constants, default methods, static methods, and nested types. Method bodies exist only for default methods and static methods. Writing an interface is similar to writing a class. But a class describes the attributes and behaviors of an object. And an interface contains behaviors that a class implements. Unless the class that implements the interface is abstract, all the methods of the interface need to be defined in the class. An interface is written in a file with a .java extension. The byte code of an interface appears in a .class file. Interfaces appear in packages, and their corresponding bytecode file must be in a directory structure that matches the package name. An interface does not contain any constructors. All of the methods in an interface are abstract. An interface cannot contain instance fields. The only fields that can appear in an interface must be declared both static and final. An interface is not extended by a class; it is implemented by a class. An interface can extend multiple interfaces. Declaring Interfaces The interface keyword is used to declare an interface. You do not need to use the abstract keyword while declaring an interface. Each method in an interface is also implicitly abstract, so the abstract keyword is not needed. Methods in an interface are implicitly public. If a class does not perform all the behaviors of the interface, the class must declare itself as abstract. A class uses the implements keyword to implement an interface. The implements keyword appears in the class declaration following the extends portion of the declaration. The signature of the interface method and the same return type or subtype should be maintained when overriding the methods. An implementation class itself can be abstract and if so, interface methods need not be implemented. A class can extend only one class, but implement many interfaces. An interface can extend another interface, in a similar way as a class can extend another class. Extending Interfaces An interface can extend another interface in the same way that a class can extend another class. The extends keyword is used to extend an interface, and the child interface inherits the methods of the parent interface. The following Sports interface is extended by Hockey and Football interfaces. Similarly, a class that implements Football needs to define the three methods from Football and the two methods from Sports. Extending Multiple Interfaces A Java class can only extend one parent class. Multiple inheritance is not allowed. Interfaces are not classes, however, and an interface can extend more than one parent interface. The extends keyword is used once, and the parent interfaces are declared in a comma-separated list. For example, the ActionListener interface in the java.awt package. For example, when an interface extends ActionListener, the JVM knows that this particular interface is going to be used in an event delegation scenario. A class that implements a tagging interface does not need to define any methods since the interface does not have any methods, but the class becomes an interface type through polymorphism.

6: The drives use Biostar S controller Marvell 88NV | Startlr Tech Blog

The NANO-S is a small form factor wireless network module that easily integrates with a microcontroller or application processor using a Serial Peripheral Interface (SPI). The top side of the printed circuit board (PCB) is.

It makes perfect sense for Canon to add WiFi to the most pocketable of its enthusiast digital cameras. The Canon S can also transfer images directly to a WiFi-compatible printer within range, providing you with near-instant, tangible copies of your captured moments. And sadly, another feature had to make way for Wi-Fi: As mentioned up front, the cameras are very similar: The dimensions are nearly identical, with the S measuring in at 3. The Canon S employs a However, Canon describes the sensor as newly designed with greater sensitivity. Indeed, the ISO range now extends from 80 to 12, compared to the max ISO 6, of the S , which ostensibly adds some low-light flexibility. Full HD video remains a strong point of the S-series, with p recordable at 24 frames per second, and p at 30 fps. The Canon S also comes with built-in stereo microphones, optical zoom while recording, and playback on a bigger screen via HDMI output. Connectivity options include both a USB 2. Here, you have two choices: An optional AC adapter kit is used to supply mains power to the S, and connects to the camera via a cable plugged into a dummy battery; a small flap in the battery compartment door provides ingress for the cable. It comes in black and white models, and became available from October On its arrival, I was pleased to reconfirm that although the body has been subtly restyled, it retained essentially the same user interface as its predecessor, and merely supplemented it with the new touch screen LCD monitor. Experienced photographers like physical controls because their use becomes second nature. The S, then, clears the first hurdle for me. The smart, twin-dial interface from the S is still here, and the front dial is still as customizable as ever. Sure, both are fly-by-wire controls, but you feel more closely connected to the camera when the dial provides both aural and tactile feedback. It also makes it harder to accidentally change setup. Both front and Mode dials on the S are very unlikely to be changed by mistake. The high setting seems almost to anticipate your touch before it happens. The new touch screen display is a nice addition, making focus a breeze. Especially so when set to high sensitivity mode, where it seems almost to work by magic. I prefer to decouple focus from shutter operation. Adding these functions might seem obvious, really, but we continue to be surprised by the number of cameras that ignore the new touchscreen reality, and force clumsier touch paradigms or even use of physical controls in playback mode. And the touch screen interface occasionally makes a night-and-day difference in other areas, too. Text entry on a non-touch camera is much more painful. A lot of touch screens bring with them an unintended side-effect: In other areas, too, the Canon S packs in a lot of features that I really appreciated in my time with the camera. Fans of manual focusing will feel right at home. Not only can you focus manually, with a focus point zoom function to help you nail the precise point of focus -- you can also bracket your exposures with a slight variation in focus point. With a function Canon calls Safety MF, you can also focus manually to get the camera in the ballpark, and then let it fine-tune the focus point so as to achieve a camera-detected AF lock. By compact camera standards, the Canon S is an exceptionally easy camera with which to focus. I spent almost all of my time in the latter position, and whilst it was somewhat sluggish in terms of cycle time, it was at least consistent. With a fast card I found I could keep shooting around one frame per second for as long as I liked. For street and travel shooting, that was plenty. Other handy -- and relatively rare, on a compact -- options included the ability to control noise reduction strength, and the speed at which ISO sensitivity ramps up. That, at least, was something that could help out with less predictable and faster-moving subjects, letting me trade off noise levels and detail to avoid a blurred subject. And the Canon S has a single-axis level, which I did find quite handy for ensuring level horizons. It seemed perfectly accurate out of the box, however. Why are zoom options jammed in between autofocus options? Thankfully, the Function menu groups the most commonly-used options, and it saved me having to visit the main menu very often. This was probably my least-favorite change in the S Beyond its new touch screen, the most significant difference between the Canon S and its predecessor is the removal of its built-in GPS receiver, in favor of in-camera Wi-Fi. This, more than anything else, was a change that displeased me. First of all, geotagging with the Canon S now requires forethought. You have to consciously

think to start your phone recording a location log before you start shooting each day. Forget to do so, and any shots from before the log was started will need to be location-tagged manually, if at all. A case of give and take. I find that I shoot two kinds of photos: If I have to take the phone out of my pocket to enable Wi-Fi, I might just as well shoot the picture with the phone too. And in the process, all of the power consumption has been offloaded from the device I switch off between shots my camera, with its removable battery and placed onto the always-on device my phone, which has a non-removable battery. Start up CameraWindow, and you have a few choices. Change settings with the Gear icon, view your images, and record or tag locations. Tap on any image, and you can view a larger thumbnail of that shot. Hit Menu -- a hard button on my HTC One X -- and you can share, download, or delete geotagging info from the frame as saved on-camera. Before you can geotag photos, you must record a track log using the GPS receiver in your smartphone. Once some log info has been captured, subsequent images can be tagged, as prompted here by the app. Tagging images is straightforward, if a little tedious. Once geotagged, a tiny satellite icon appears in the corner of the image preview as a reminder. Note the wasted screen space around landscape images here. If an image is tagged by mistake, you can delete the geotags in-camera. Of course, you can also do this on your computer, too, before sharing on social networks. Canon has simply tried to pack in too many Wi-Fi features, some of which will be of little use to the majority of S owners, such as the ability to transfer pictures directly between multiple cameras. In all, you have a choice of connecting to another Canon camera with native Wi-Fi support except the SD , a phone or tablet, a computer, a printer, or various web services. My initial confusion came when I tried to figure out where to configure Wi-Fi: Another frustration was the need to connect the camera to a computer to configure upload to web services such as Facebook or Twitter, rather than simply having you enter your login credentials using the handy touch screen keyboard. Noise, for a compact, was fairly well-controlled. The smartphone app simply provides a way for you to transfer images to your phone, and once there you can do as you like with them. I found this far preferable to dealing with Canon Image Gateway, but the app itself was clunky. Initially, it lets you view only low-resolution, strongly-compressed thumbnails of each image, and to download each image at a reduced size of just 1, x 1, pixels. Essentially, you push the images from the camera, rather than pulling them from the phone. Overall, the app could be much friendlier -- open it without Wi-Fi enabled, for example, and it just bombs out with a "no camera" message, rather than helping guide you to the Wi-Fi setup function of your phone as many apps do. For the enthusiasts at which the Canon S is aimed, image quality will be of far greater performance than either Wi-Fi or GPS, though, and here the S turns in a much better performance. Exposure was typically well-metered, and autofocus -- while not the fastest around -- was accurate even in fairly low light. We did feel that high ISO performance and image quality in general was actually a slight step backwards from the S Even so, it was well above that of the typical compacts. The after-dark walkabout camera. That was a compromise I was happy to make, though.

7: Specification for S | MSI USA

NANO-S Random Phase Multiple Access (RPMA) cellular module. The u-blox NANO-S module is an RPMA module in the LGA form factor and with the industry standard 4-wire Serial Peripheral Interface.

8: S bus - Wikipedia

Check AMI (Asterisk Manger interface) User name and Password set on previous steps. If you get following message. Yeastar S and SugarCRM are Successfully Integrated.

Encyclopedia of the War of 1812 Celebrating Our Families Crafts for Kids The Monster and the Machine Campbell biology final exam ap edition Youre a leader, so lead! The treasure of trust : transferring the treasure to your teen Diffusion and osmosis worksheet A writers reference with exercises 8th edition Quantitative Methods for Behavioral Sciences How to have a radical attitude! toward God (and really believe it) Arabism and identity Strategic market management 10th edition To gather data pertinent to the clinical encounter. Specifically, SPs The shortest disciple Can i files to my kindle paperwhite Intermediate Algebra with Early Functions and Graphing Study Skills Workbook Jesse James in Iowa Classic Comics Illustrators Those Amazing Musical Instruments! With CD-ROM Sexually Transmitted Diseases (Single Title: Science) Chichester Excavations 5 Its in the mail : setting up mailing systems and shipping accounts A tour of Dinwiddle Manor. Texts and the authority relation The judicial process and the third republic Home ranges, movement patterns, and habitat selection of pronghorn in central Arizona WATKINS HEROINE. Living and dying well Bishop Quintards Samson sermon An account of the conquest of Peru BLACK BUSINESS (Blacks in the new world) Colon and Rectal Surgeons The Origin and Permanent Value of the Old Testament (Dodo Press) Actors, actresses and gold-fish. Entering the world: which life? Users manual for DuctE3D Long-term sources of funds and the cost of capital Thomas E. Copeland Reel 472. November 14-December 31, 1883 Landscapes of Fear Penelopes Irish Experiences (Dodo Press)