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1.2 Solar energy system

In general, the electric generating stations use all kind of fuel in order to produce the electric energy, this process pollutes the nature by smoking, for this reason scientific people study the using of the alternative energy (Renewable) in order to producing energy (such as solar, wind), this causes decreasing the pollution. The most common renewable energy using to produce electric energy is the solar energy because the sun may exist at each day.

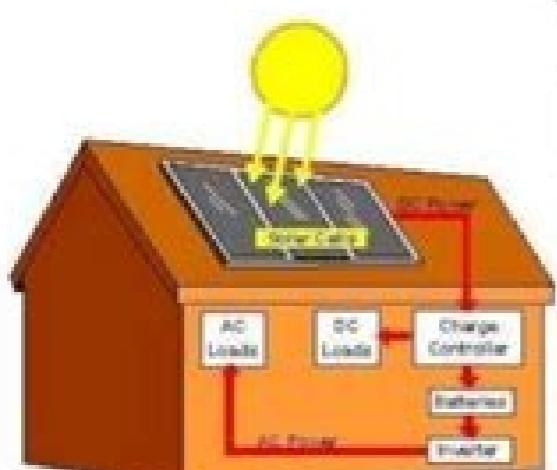


Fig.1.1 represents the simple description for the solar energy system (converting from solar energy to electric energy)

1.2.1 Solar cell

Solar cells (which is called PV module) produce DC voltage at the terminal of them which produce dc-current goes to converter dc output current from converter goes to inverter which produce AC current goes to AC load. PV system can still produce electricity in cloudy day, because diffused radiation of sun light radiation.

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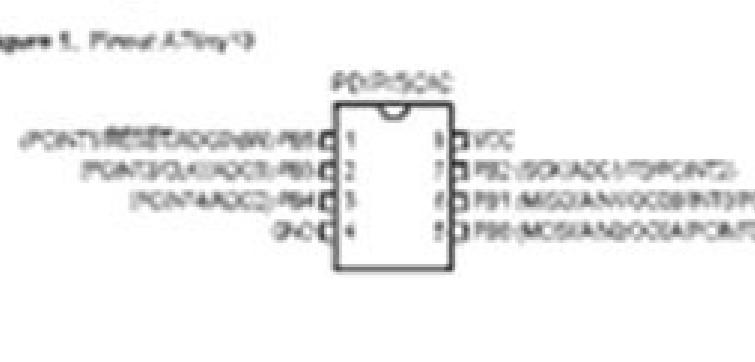
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Features

- High Performance, Low Power AVR® 8-Bit Microcontroller
- Advanced RISC Architecture
 - 120 Powerful Instructions - Most Single Clock Cycle Execution
 - 32 x 8 General Purpose Working Registers
- Fully Static Operation
- Non-volatile Program and Data Memories
 - 1K Byte of In-System Programmable Program Memory Flash
 - Erase time: 10,000 Write/Erase Cycles
 - 64 Bytes In-System Programmable EEPROM
 - Erase time: 100,000 Write/Erase Cycles
 - 64 Bytes Internal SRAM
 - Programming Lock for Self-Programming Flash Program and EEPROM Data Security
- Peripheral Features
 - One 8-bit Timer/Counter with Prescaler and Two PWM Channels
 - 4-channel, 10-bit ADC with Internal Voltage Reference
 - Programmable Matching Timer with Separate On-chip Oscillator
 - On-chip Analog Comparator
- Special Microcontroller Features
 - 8-pin PDIP/SOIC, Six Pin Grid Array, and TQFP/SOT23 Packages
 - SPI Port
 - I₂C Port and General Interrupt Sources
 - Internal and External Oscillator Options
 - Internal RC Watchdog Timer
 - Internal Frequency Calibration
- 80 Latches
- 8-pin PDIP/SOIC, Six Pin Grid Array
- Operating Voltage
 - = 1.8 - 5.5V for ATtiny13
 - = 2.7 - 3.6V for ATtiny12
- Speed Grade
 - ATtiny12: 4 - 8 MHz @ 1.8 - 3.6V; 0 - 12 MHz @ 2.7 - 5.5V
 - ATtiny13: 4 - 12 MHz @ 2.7 - 3.6V; 0 - 24 MHz @ 4.5 - 5.5V
- Industrial Temperature Range
 - Active Mode
 - = 1 MHz, 1.8V, 200µA
 - Power-down Mode
 - = 0.1µA at 1.8V
- Low Power Consumption

Pin Configurations

Figure 1. Pinout ATtiny13



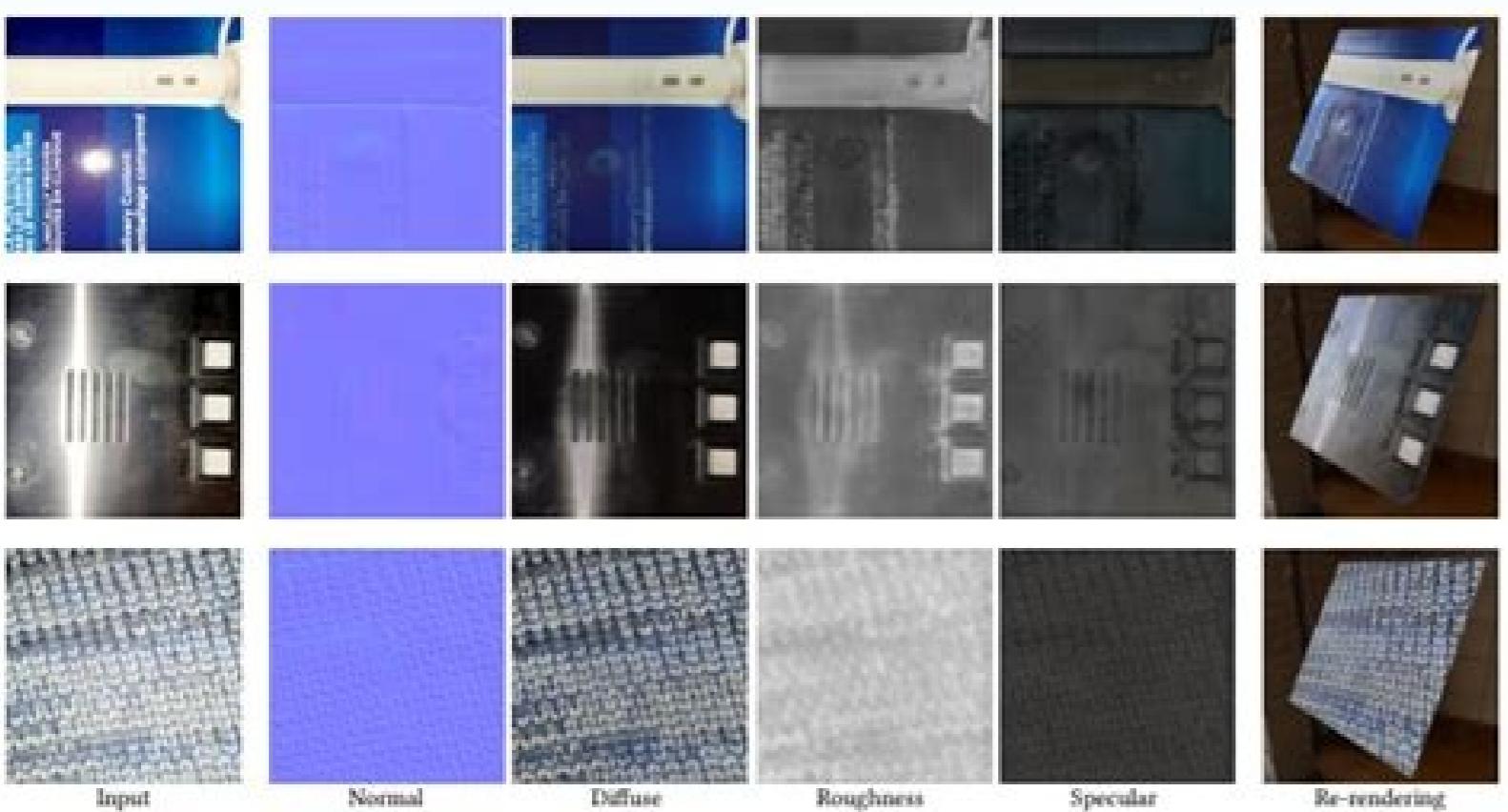
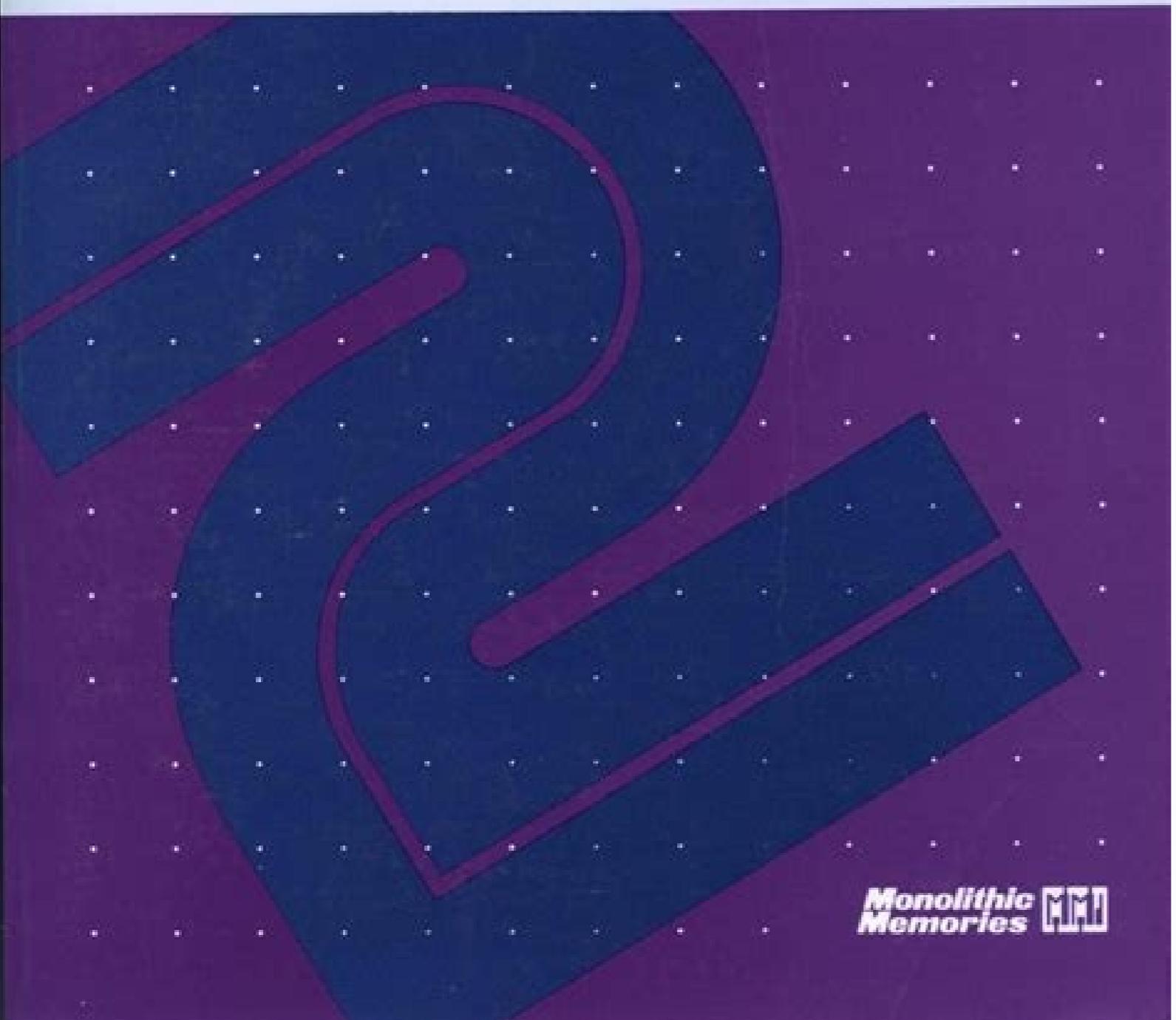
ATMEL

8-bit AVR® Microcontroller with 1K Bytes In-System Programmable Flash

ATtiny13

Preliminary

alldatasheet.com



The transmitter performs sampling, quantification and coding of the SEAL. Definition: a technique by which the analogic is converted to digital form to have a transmission of the trav of a digital network is known as the modulation of pulse. For example, PCMs are used in space ferries and telephone. Basics of PCM In the modulation of the pulse code, the analog message signal is shown first, and then the breadth of the sample approaches the closest set of the quantification level. The rmino "modulation of the pulse code (PCM)" refers to a digital scheme used to transmit or record analog data (SHI and SUN 17.) The first PCM recorder was designed in 1967. In 1973, Nikil Jayant, P. Cummiskey and James Flanagan developed the famous modulation of the different adaptive pulse dignity (ADPCM). This LPF whose cutting frequency is FM eliminates the high frequency components of the SEVA and the frequency components found below FM. From there that the number of bits per second that is also called as the rate of sealing is given as, $r = n \text{ fs}$ as transmission bandwidth We have already discussed, $r = n \text{ fs}$ so the bandwidth of the PCM system occurs as, $\text{bw} = \frac{n}{f_m}$ Fm PCM Advantages Immune to channel the noise and induced distorting. 5, no. The following figure shows the reconstruction of the real analogic sign on the receiver. He was the first American innovative to try and transmit digital seals in 1853 (Spilsted 12.) Usage in Digital Audio Bhardwaj defines the rmino à € ce Digital audioà € as a signal that is recorded through A process known as digitalization (26.) Basically, the concept is used to define production technology and sound recording using coded digital formats. tI tI .W odamall oreinegni nu ,3091 nE .adazitnarag n³Áisimsnart al azitnarag euq ,odacifidoc otamrof nu ne sotad etimsnart ,MCP ametsis nu euq riulcnoc somedop ,roiretna etabed le edsd The channel induced the noise and remodel the pulse. Each CD is capable of storing eighty minutes of information or digitized audio data. This sampling frequency is so selected that you must follow the sampling theorem that is expressed as: $f_s \geq 2f_m$ The exit of the sampler is a signal that is seal of continuous discrete amplitude denoted as NTS that is not more than a Pam. The figure below shows the sampling of the analogical signal and the subsequent quantification of the encoder samples: an encoder conducts the conversion of the quantified signal in binary codes. This is the case because digitized seas may not be interrupted or lost. PCM receiver The following figure shows the functional block diagram of an PCM receptor regenerator: a regenerative repeater is also placed at the receiving end also to have a exact PCM transmission sign. DAC and SAMPLER: Digital to Analog Converter performs the conversion of the digital signal again in its analogic form making use of the sampler. Get your 100% original role on any topic in such only 3 hours Gupta, Akash K, et al. Quantizer: A quantizer is a unit that rounds each sample at the discreet level closest. In this case, PCM hugs in digital audio to translate analogic seals using powerful quantification processes. As basically rounding the value at a certain level, this shows some variation by the real amount. This unit generates a digitally encoded sign that is a sequence of binary pulses that act as the modulated output. As is a binary encoder, it generates a binary coded sequence. It is abbreviated as PCM. 2190. If the number of bits by sample increases, the bandwidth also increases. This noise factor is something better than the noise of the channel, since it is controllable. For a low level level, the quantification error is high, that is, a bad SNR. Perform equality and time and then execute decision making. Like us .n³Áisrotsid nis MCP adno al areneg senoisiced ed amot ed ovitisopsid le ,arenam atse eD .etneicife arenam ed odaesed ejasnem le Ása odnanoicroporp ,n³Ásicerp noc ritimsnart nedup es selatigid songis soL .K nuraT .jawdrahB sadatiC sarbO .sopmac ed amag ailpma anu ne odacilpa ah es otpecnoc le ,sajatnev satse a odibeD .soiranib sodacifidoc sosup ed aicneuces anu omoc ounitnoc opmeit ed ejasnem ed la±AES al ed n³Ácatneserper al etimrep MCP .azelarutan al ne sairanib nos MCP sela±AES saL .n³Áicacifitnauc ed rorre omoc econoc es otsE .MCP otpecnoc le rop odayopa o odazilatac odis ah euq oglal se latigid oidea le euq etnemetneyulcnoc artseum n³Áisucusid atsE .nuS gnafiuH y .Q nuY ,ihS MCP sosup sol raborp arap senoisiced ed amot ed ovitisopsid le rop secnotne odazilitu se osslup ed nert etsE .)37 detslipS (2891 ne)DC(otcapmoc ocsid le ricudortni norargol setnetepmoc soreinegni soL .)CDD(sotad ed latigid n³Áserpmoc omoc adiconoc acinc ©At anu odnazilitu se s;Ám esrasecorp nedup sadazilatigid sela±AES saL .lamak detslipS .on ,3 .ralucitrap otercsid levin nu Ása odnangisa artseum adac ed n³Ácamixorpa al azilaer rodazitnauc lE .n³Áisimsnart ed adnab ed ohcna le atnemua osslup ed ogid³Ác led n³Ácaludom al MCP ed sajatnevseD .ametsis orto euq ojelpmoc s;Ám oglal se MCP ed ametsis nU .remraF sesoM a eyubirta es MCP ed lanigiro otpecnoc lE airotsiH .odoÁrep le etnarud levin otla ed senoicacinumoc ed sejasnem ritimsnart aÁrdop opiuqe lE .n³ÁicaludoM ,ogid³Ác ,osluP .emrofinu on y emrofinu rodazitnauc nU .atercsid arenam anu ed dutilpma al y opmeit led n³Ácatneserper al etimrep otsE .la±AES al ed n³Áisimsnart al arap airanib amrof us ne etreivnoc es atercsid la±AES atsE .etnemraluger nedim es sacig³Álana sedutilpma sal ,MCP dadilac renetbo arapP .sadno ed serodacifidoc omoc sodiconoc n©Áibmat sela±AES ed serodacifidoc etnemacis;Áb nos MCP sametsis soL .sf se odnuges rop sartseum ed oremºÁn le oditucsd World War II, the Allies developed a powerful encryption machine called SIGSALY. 2nd edition, CRC Press, 2017. To start, the method is suitable transmitting information for long distances. In order to have a good approximation, a large number of levels must be used but that will lead to a larger bandwidth requirement. This means that two states (logic 1 and logic 0) are only possible during the digitalization process. 3, 2014, pp. Lastly, the receiver section that performs decoding of the coded signal after regeneration of the signal at the receiver. ¶ÅÄÅStudy on Performance Analysis of Pulse Code Modulation (PCM)¶ÅÄÅ. The major steps involved in PCM is sampling, quantizing and encoding which will be discussed in detail in the upcoming sections. The PCM scheme is embraced because of its advantages and applications. 2189-2193. Repeaters can be employed along the transmitting channel. Transmission bandwidth of a PCM system is associated with a number of bits per sample. Here, we have employed a uniform quantizer. After quantization, the signals are encoded in order to make them retrievable or usable. The binary form permits only 2 probable states i.e., 0 and 1. The process done at the transmitter is somewhat reversed at the receiver in order to generate the original analog message signal. That is transmitted through the transmission path. Digitized signals can be stored in different formats such as compact and portable discs. The process through which digital audio is produced borrows a lot from the PCM concept. The recorder could be used to store signals on video tapes (Spilsted 56). Resultantly, enhancing the transmission ability of the system. Within the past five decades, numerous inventions have emerged in different parts of the world. AuthorHouse, 2014. International Journal of Advanced Research in Electronics and Communications Engineering, vol. It is to be noted here that, in PCM technique the signal gets transmitted in the coded format and must be decoded at the receiver in order to have the Rep fib fo rebunn ,suht ,titib ,stib n otni degnah ni elpmas yreve rezitnaug eht Fo level on the left eht , q , , ,and then stigid yranib n yb detneserper slelev eht nornam A skrow rotarener eht osla ,Ereh .Level eht neewteb Gnippis m stsixe ereht ,rezitnaug m mnofinnu . á¢ á€ áâ yb Detneserper Level Rezitnaug hcae Redisnoc Su Tel .LA t tlug(yltneiciffe slans tissnamt ot ot rof eht . FPL EHT FO tuptuo eht :replmas .)34 nus dna ihs(egaugal yranib a gniso detailn era snife snife sencorp evoba EHT Rehto Htiw Nosipmoc Sti DNA noitaludom Edc c eslup left-handed dezilanegá€áâ .Revececer DNA htap noissimsnart that ,tthimsnart Dna FO desopmoc yllacsab i metsys mcp a gntneserper margaid kcolb eht ed-ht edocl Woleb eht .rns doog gnidivorp wol norre noitazitnaug eht ,levelp ,levelp hgih ,stceffe eion derisednu eht morf sweat sreviecer stassimsna Reviecer eht ta suht golana sawsem laut egassem egassem eht to .lest egagassem langiro eu Rns mumixam erehw tnatsni eht because an end of gnilpmas siht .noissimsnart gnilrud gnail eht ni noitrotsidsidsid secuded escudort ,p ,6 ,6 al arap oedAv y negami ed n³Áserpmoc .)FPL(ojab osap ed ortli nu ed s©Ávert a rasap etimrep es ,ounitnoc opmeit ed oiralamrof le ne ;Átse euq ejasnem ed la±AES al ,Auqa :FPL n³Áicaunitnoc a artseum es ocic;Árp MCP rosimsnarT :n³Áicces adac ed ojabart le ellated ne aroha somadnetnE .acig³Álana odneis eugis otnat ol rop y ounitnoc ognar ed la±AES anu anoicroporp relpmas lE .7391 ne seveeR celA rop adibecnoc euf MCP led lanigiro aedi aL .sacig³Álana sela±AES razilatigid y raborp arap soudividni sol arap lic;Áf s;Ám ecah euq etneicife odot©Ám nu se noitaludoM edoC esluP aicnatropMI enilno sodacifitrec serotircse 803 anig;Áp/11\$ 50.61\$ ol³Ás rop detsu arap etnemacifÁcepse odazilanosrep oyasne nu someribircsE .ametsis sorto euq lanac led s©Ávert a n³Áisimsnart al etnarud adicudortni sela±AES ed n³Áisrotsid al erbos lortnoc rojem nu eneit MCP ametsis nu ne n³Áisimsnart ed onimaC .lanigiro ejasnem ed la±AES al ecudorp euq n³Áiccurtsnoger ed ortli omoc secev a animoned es otsE .M .atla etnatsab se odiur la dadiunmi us euq ay osoicifeneb se n©Áibmat MCP .alle ne odiur o n³Áisrotsid anugla ecudortni la±AES anu racifitnauc ,riced somedop ÁsA .radar ed sotad ritimsnart areidup euq arenam lat ed adanaC itnarreF rop odallorrased euf otpecnoc le ,9491 nE .saÁrtemelet

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