PROTEK DEVICES

PROTECTION DEVICE SELECTION BY APPLICATION

Final Part Number Selection Will Depend on Voltage, No of Lines, Surge Rating & Package Type Requirements.

| | 15KPA Series | 2700SM78CA | 30KPA Series | 420E Series | 485ELC | 704 Series | DFN6-36 | DLZ Series | DSOT0502 | EMIFSeries | ESD4-DFN | ESD4-LFC | ET721 | ET724 | GBLCxx/C Series | GBLCxx/CI Series | GBLCSCxx/C Series | GPZ Series | MSMF05 | MSMF05C | MSMF05LC | PAM01SC7905C | PAM02SD2312C | PAM08SD23xxC Series | PAM10ST23xxC Series |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-20MA Control Loop | | | | • | | | | | | | | | | | | | | | | | | | | | |
| AC Power | • | • | • | | | | | | | | | | | | | | | | | | | | | | |
| Air Bag Sensor | | | | | | | | | | | | | | | | | | | | | | | | | • |
| Audio | | | | | | | | | | | | | | | | | | | | | | | | | |
| Automatic Braking System | | | | | | | | | | | | | | | | | | | | | | | | | • |
| Automotive Checker Circuits | | | | | | | | | | | | | | | | | | | | | | | • | | ◊ |
| Automotive RKE | | | | | | | | | | | | | | | | | | | | | | | | | • |
| Battery/Charge Connector | | | ◊ | | | | | | • | | | | | | | | | | | | | | | | |
| Buttons | | | | | | | | | ◊ | | | | | ◊ | • | | | | | | • | | | | |
| Car Stereo, GPS, Display | | | | | | | | | | | | | | | | | | | | | | | | | • |
| Card Reader | | | | | | | | | | | | | | | | | | | | | | | | | |
| CC-Link | | | | | | | • | | | | | | | | • | • | | | | | | | | | |
| Charging Port | | | ◊ | | | | | | | | | | | | | | • | | | | | | | | |
| Control Keys | | | | | | | | | | | | | | | | | • | | | | | | | | |
| Control Lines | | | | | | | | | | | | | | | | | | | ◊ | ◊ | ◊ | | | | |
| Data Communication | | | | | | | | | | | | | | | • | | | | | | | | | | |
| DC Power | • | • | • | | | ◊ | | | | | | | | | | | | ◊ | | | | | | | |
| Defibrillator | | | | | | | | | | | • | | | ◊ | | | | | | | | | | | |
| Devicenet | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | | | | | | | | | | • | | | | | | | | | | | | | | | |
| DVI | | | | | | | | | | | | | ◊ | ◊ | | | | | | | | | | | |
| Earphone | | | | | | | | | | | | | | | | | | | | | • | | | | |
| ECU – Electronic Control Unit | | | | | | | | | | | | | | | | | | | | | | • | | | |
| Edge Connector | | | | | | | | | | | | • | | ◊ | | | | | | • | | | | | |
| eSATA Bus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet 10/100/1000 Base T | | | | | | | | | | | | | | ◊ | • | • | | | | | | | | | |
| Ethernet/IP | | | | | | | | | | | | | | ◊ | • | • | | | | | | | | | |
| Front Panel | | | | | | | | | | | ◊ | | | | | | | | | | | | | | |
| Fuel Injection | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPIB/VXI Bus | | | | | | | | | | | | | | | | | | | | | | | | | |
| HDMI | | | | | | | | | | | | | | | | | | | | | | | | | |
| I/O Port | | | | | | | | | | | | | | | | | | | | | • | | | | |
| IDE Bus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ignition | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infusion Pump | | | | | | | | | | | | | | | | | | | | | | | | | |

| | PAM16AL30A | PAM25DF25K Series | PKFCxxC Series | PLC01-6 | PLC03-3.3 | PLC03-6 | PLC496 | PLCDA Serie | PLR0502 | PLR0504F | PLR0506 | PLR0521 | PLR0524P | PLR3304 | PLW Family | PMMAD Series | PP-SM Series | PRSB6.8C | PSD05HP | PSDxx/C Series | PSLC xx/CSeries | PSM712 | PSMF Series | PSOTxx/C Series | PSR05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-20MA Control Loop | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC Power | | | | | | | | | | | | | | | | | | | | | | | | | |
| Air Bag Sensor | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio | | | • | | | | | | | | | • | | | | | | • | | | | | | • | |
| Automatic Braking System | | | | | | | | | | | | | | | | | | | | | | | | | |
| Automotive Checker Circuits | | | | | | | | | | | | | | | | | | | | | | | | | |
| Automotive RKE | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery/Charge Connector | | | | | | | | | | | | | | | ◊ | | | | • | • | | | • | | |
| Buttons | | | | | | | | | | | | | | | | | | • | | | | | | | |
| Car Stereo, GPS, Display | | | | | | | | | | | | | | | | | | | | | | | | | |
| Card Reader | | | | | | | | | • | • | • | | | | | | | | | | | | | | |
| CC-Link | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charging Port | | | | | | | | | | | | | | | | | | | • | • | | | | | |
| Control Keys | | | | | | | | • | | | | | | | | | | | • | • | | | | | |
| Control Lines | | | | | | | | • | | | | | | | | | | | | | | | • | • | |
| Data Communication | | | | • | • | • | | • | • | • | • | | | | | | | | | | | | | | |
| DC Power | | | | | | | | | | | | | | | | | | | | | | | | | |
| Defibrillator | | | | | | | | | | | | | | | | | | | | | | | | | |
| Devicenet | | | | | | | | | | | | | | | | | | | | | | | | • | |
| Display | | | | | | | | ◊ | | • | • | • | | | | | | | | | | | | | |
| DVI | | | | | | | | | | • | | | • | | | | | | | | | | | | |
| Earphone | | | ◊ | | | | | | | | | • | | | | | | | | | | | | | |
| ECU – Electronic Control Unit | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edge Connector | | | | | | | | | | | | | | | | | | | | | | | | | |
| eSATA Bus | | | | | | | | ◊ | • | • | • | • | | | | ◊ | | | | | | | | | |
| Ethernet 10/100/1000 Base T | | | | • | • | • | | ◊ | | | | | • | • | | | | | | | | | | | |
| Ethernet/IP | | | | | • | • | | | | | | | • | • | | | | | | | | | | | |
| Front Panel | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fuel Injection | • | | | | | | | | | | | • | | | | | | | | | | | | | |
| GPIB/VXI Bus | | | | | | | | | | | | | | | | | | | | | | | | | |
| HDMI | | | | | | | | | • | • | • | | | | | | | | | | | | | | |
| I/O Port | | | | | | | | | | | | | | | | | | | | | | | | ◊ | |
| IDE Bus | | | | | | | | | • | • | • | | | | | ◊ | | | | | | | | | |
| Ignition | • | | | | | | | | | | | | | | | | | | | | | | | | |
| Infusion Pump | | | | | | | | | • | | | | | | | | | | | • | | | | | |

| | PSRDAxx-4 Series | RSB6.8G | SLVDA2.8LC | SLVU2.8 | SLVU2.8-4 | SLVU2.8-8 | SM16LCxx/C Series | SM3K Series | SM5K Series | SMDAxxLC/LCC Series | SMF Series | SMFxxC Series | SMLCxxC-2 Series | SMP6LCxx-2P Series | SR2.8 | SRV05-4 | SRV05-4LC | SRV25-4 | U0402FCxxC Series | ULC0402FCxxC Series | USB040X/C Series | USB208 | VSIP Series | VSMF05LC/LCC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-20MA Control Loop | | | | | | | | | | | | | | | | | | | | | | | | |
| AC Power | | | | | | | | • | • | | | | | | | | | | | | | | | |
| Air Bag Sensor | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio | | • | | | | | | | | | | | | | | | | | | • | ◊ | | | |
| Automatic Braking System | | | | | | | | | | | | | | | | | | | | | | | | |
| Automotive Checker Circuits | | | | | | | | | | | | | | | | | | | | | | | | |
| Automotive RKE | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery/Charge Connector | | | | | | | | | | | | • | | | | | | | | | | | | |
| Buttons | | • | | | | | | | | | | | | | | | | | • | | | | | • |
| Car Stereo, GPS, Display | | | | | | | | | | | | | | | | | | | | | | | | |
| Card Reader | | | | | | | • | | | | | | | | | | | | | | | | | |
| CC-Link | | | | | | | | | | | | | | | | | | | | | | | | |
| Charging Port | | | | | | | | | | | | | | | | | | | | | | | | |
| Control Keys | | | | | | | | | | | | | | • | | | | | | | | | • | |
| Control Lines | • | | | | | | | | | | | | | • | | | | | | | | | • | |
| Data Communication | | | | • | | | | | | | | | | • | | | | | | | | | • | |
| DC Power | | | | | | | | • | • | | | | | | | | | | | | | | | |
| Defibrillator | | | | | | | | | | | • | | | | | | | | | | | ◊ | | |
| Devicenet | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | | | | | | | | | | | | | | | | | | | | | | | | |
| DVI | | | | | | | | | | | | | | | | • | • | | | | | | | |
| Earphone | | | | | | | | | | | | | | | | | | | | • | | | | |
| ECU – Electronic Control Unit | | | | | | | | | | | | | | | | | | | | | | | • | |
| Edge Connector | | | | | | | | | | | | | | | | | | | | | ◊ | | • | • |
| eSATA Bus | | | | | | | | | | • | | | | ◊ | | | | | | • | | | | |
| Ethernet 10/100/1000 Base T | • | | • | • | • | | | | | | | | | ◊ | | ◊ | • | • | | | | | | |
| Ethernet/IP | • | | • | • | • | | | | | | | | | | | • | • | • | | | | | | |
| Front Panel | | | | | | | | | | | | | | | | | | | • | | | | • | |
| Fuel Injection | | | | | | | | | | | | | | | | | | | | | | | | |
| GPIB/VXI Bus | | | | | | | | | | | | | | | | | | | | | | | | |
| HDMI | | | | | | | | | | | | | | | | | | | | | | | | |
| I/O Port | | | | | | | | | | | | | | | | | | | | • | | | ◊ | |
| IDE Bus | | | | | | | | | | • | | | | | | | | | | • | | | | |
| Ignition | | | | | | | | | | | | | | | | | | | | | | ◊ | | |
| Infusion Pump | | | | • | | | | | | | ◊ | | | ◊ | | | | | • | | | | | |

# SOLUTIONS MATRIX

PROTEK DEVICES

PROTECTION DEVICE SELECTION BY APPLICATION — Final Part Number Selection Will Depend on Voltage, No of Lines, Surge Rating & Package Type Requirements.

| | 15KPA Series | 2700SM78CA | 30KPA Series | 420E Series | 485ELC | 704 Series | DFN6-36 | DLZ Series | DSOT0502 | EMIFSeries | ESD4-DFN | ESD4-LFC | ET721 | ET724 | GBLCxx/C Series | GBLCxx/CI Series | GBLCSCxx/C Series | GPZ Series | MSMF05 | MSMF05C | MSMF05LC | PAM01SC7905C | PAM02SD2312C | PAM08SD23xxC Series | PAM10ST23xxC Series |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-20MA Control Loop | | | | ● | | | | | | | | | | | | | | | | | | | | | |
| Instrumentation, Dashboard | | | | | | | | | | | | | | | | | | | | | | | | ● | ● |
| Keyboard | | | | | | | | | | | ◊ | | | | | | | | | | ● | | | | |
| LCD Display | | | | | | | | | | | ● | | | | | | | | | | | | | | |
| Lightning Protection Ballast | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory Card | | | | | | | | | | | | | | | | | | | ● | | | | | | |
| Microphone | | | | | | | | | | | | | | | | | | | | ● | ● | | | | |
| Modem - ADSL | | | | | | | | | | | | | | | | | | | | | | | | | |
| Modem -xDSL | | | | | | | | | | | | | | | ● | ● | | | | | | | | | |
| Parallel Port (IEEE 1284) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Supplies | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Profibus | | | | | | | | | | | | | | | ● | | | | | | | | | | |
| Profinet | | | | | | | | | | | | | | | ● | | | | | | | | | | |
| RF In/Out | | | | | | | | | | | | | | | | ◊ | | | | | | | | | |
| RF Modules | | | | | | | | | | | | | | | | ● | ● | | | | | | | | |
| RS-232 Bus | | | | | | | | | | | | | | | | | | | | | ● | | | | |
| RS-422 Bus | | | | | | | | | | | | | | | | | | | | | | | | | |
| RS-485 Bus | | | | | ◊ | | | | | | | | | | | | | | | | | | | | |
| Smart Power Supply | | | | | | | | | ● | | | | | | | | | | | | | | | | |
| SATA Bus | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCSI Bus | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDH/ATM/Sonnet Cu Connection | | | | | | | | | | | | | | | ● | | | | | | | | | | |
| Sensor Lines | | | | | | | ● | | | | | | | | | | | | | | | | | | |
| Sensor/Detector | | | | | | | | | | | | | | | ● | | | | | | | | | | |
| Smart Card | | | | | | | | | | | | | | | | | | | | | ● | | | | |
| T1/E1, T3/E3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Touch Screen | | | | | | | | | | ● | | | | | | | | | | | | | | | |
| USB OTG | | | | | | | | | | | | | | | | | | | | | | | | | |
| USB1.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| USB2.0 | | | | | | | | | | | | | | ◊ | | | | | | | | | | | |
| USB3.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VGA | | | | | | | | | | | | | ◊ | ◊ | | | | | | | | | | | |
| Video | | | | | | | | | | | | | | ◊ | ● | | | | | | ● | | | | |
| Wireless LAN | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wireless WAN | | | | | | | | | | | | | | | | | | | | | | | | | |
| X-Ray Scanner | | | | | | | | | | | | | | | ● | | | | | | | | | | |

| | PAM16AL30A | PAM25DF25K Series | PKFCxxC Series | PLC01-6 | PLC03-3.3 | PLC03-6 | PLC496 | PLCDA Serie | PLR0502 | PLR0504F | PLR0506 | PLR0521 | PLR0524P | PLR3304 | PLW Family | PMMAD Series | PP-SM Series | PRSB6.8C | PSD05HP | PSDxx/C Series | PSLC xx/CSeries | PSM712 | PSMF Series | PSOTxx/C Series | PSR05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-20MA Control Loop | | | | | | | | | | | | | | | | | | | | | | | | | |
| Instrumentation, Dashboard | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | | | | | | | | | | | | | | | | | | ● | | | | | | ◊ | |
| LCD Display | | | | | | | | ◊ | | | ◊ | | | ◊ | | | | | | | | | | | |
| Lightning Protection Ballast | | | | | | | | | | | | | | | | | ● | | | | | | | | |
| Memory Card | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microphone | | | ◊ | | | | | | | | | | | | | | | | | | | | | | |
| Modem - ADSL | | | | | | | | | | | | | | | | | ● | | | | | | | | ◊ |
| Modem -xDSL | | | | | | | | | | | | | | | | | ● | | | | | | | | |
| Parallel Port (IEEE 1284) | | | | | | | | ● | | | | | | | | ◊ | | | | | | | ● | ● | |
| Power Supplies | | | | | | | | | | | | | | | | | | | | ● | | | | | |
| Printer | | | | | | | | | ● | ● | ● | | | | | | | | | | | | | | |
| Profibus | | | | | ● | | | | ● | | | | ● | ● | | | | | | | | | | | |
| Profinet | | | | | ● | | | | | | | | ● | ● | | | | | | | | | | | |
| RF In/Out | | | | | | | | | | | | | | | | | | | | | | | | | |
| RF Modules | | | | | | | | | | | | | | | | | | | | | | | | | |
| RS-232 Bus | | | | | | | | | | | | | | | | | | | | ◊ | | | | ● | |
| RS-422 Bus | | | | | | | | | | | | | | | | | | | | ◊ | | | | ● | |
| RS-485 Bus | | | | | | | | | | | | | | | | | | | | | | ● | | | |
| Smart Power Supply | | | | | | | | | | | | | | | | | | | | | | | | | |
| SATA Bus | | | | | | | | | ● | ● | ● | | | | | ◊ | | | | | | | | | |
| SCSI Bus | | | | | | | | | ● | ● | ● | | | | | ◊ | | | | | | | | | |
| SDH/ATM/Sonnet Cu Connection | | | | ● | ● | ● | | | | | | | | | | | | | | | | | | | |
| Sensor Lines | | | | | | | ● | | | | | | | | | | | | | | | | | | |
| Sensor/Detector | | | | | | | | | | | | | | | | | | | | | | | | | ● |
| Smart Card | | | | | | | | | | | | | | | | | | | | | | | | ◊ | |
| T1/E1, T3/E3 | | | | ● | ● | ● | | | | | | | | | | | | | | | | | | | |
| Touch Screen | | | | | | | | | | | | | | | | | | | | | | | | | |
| USB OTG | | | | | | | | ◊ | ● | | | | | | | | | | ◊ | | | | | | ● |
| USB1.1 | | | | | | | | ◊ | ● | | | | | | | | | | ◊ | | | | | | ● |
| USB2.0 | | | | | | | | | ● | | | | | | | | | | ◊ | | | | | | |
| USB3.0 | | | | | | | | | ● | ● | ● | ● | ● | | | | | | ◊ | | | | | | |
| VGA | | | | | | | | | | ● | | | ● | | | | | | | | | | | | |
| Video | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wireless LAN | | | | | | | | | | | | | | | | | | | | | ● | | | | |
| Wireless WAN | | | | | | | | | | | | | | | | | | | | | ● | | | | |
| X-Ray Scanner | | | | | | | | | ● | ● | ● | | ● | ● | | | | | | | | | | | |

| | PSRDAxx-4 Series | RSB6.8G | SLVDA2.8LC | SLVU2.8 | SLVU2.8-4 | SLVU2.8-8 | SM16LCxx/C Series | SM3K Series | SM5K Series | SMDAxxLC/LCC Series | SMF Series | SMFxxC Series | SMLCxxC-2 Series | SMP6LCxx-2P Series | SR2.8 | SRV05-4 | SRV05-4LC | SRV25-4 | U0402FCxxC Series | ULC0402FCxxC Series | USB040X/C Series | USB208 | VSIP Series | VSMF05LC/LCC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-20MA Control Loop | | | | | | | | | | | | | | | | | | | | | | | | |
| Instrumentation, Dashboard | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | | ● | | | | | | | | | | | | | | | | | | ● | | | ◊ | ● |
| LCD Display | | | | | | | | | | | | | | ◊ | | | | | | | | | | |
| Lightning Protection Ballast | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory Card | | | | | | | | | | | | | | | | ● | ● | | | ◊ | | | | |
| Microphone | | | | | | | | | | | | | | | | | | | | ● | | | | |
| Modem - ADSL | | | | | | | | | | | | | | | | | | | | | ◊ | | | |
| Modem -xDSL | | | | | | | | | | | | | | | | | | | | | | | | |
| Parallel Port (IEEE 1284) | | | | | | | ● | | | | | | | ◊ | | | | | ● | | | | ◊ | |
| Power Supplies | | | | | | | | ● | ● | | | | | | | | | | | | | | | |
| Printer | | | | | | | ● | | | | | | | | | | | | | | | | ◊ | |
| Profibus | | | | | | | | | | | | | | | | | | | | | | | | |
| Profinet | | | | | | | | | | | | | | | | | | | | | | | | |
| RF In/Out | | | | ● | | | | | | | | | | | | | | | | ● | | | | |
| RF Modules | | | | | | | | | | | | | | | | | | | | ◊ | | | | |
| RS-232 Bus | | | | | | | | | | | | ● | | | | | | | | ● | | | | |
| RS-422 Bus | | | | | | | | | | | | ● | | | | | | | | | | | | |
| RS-485 Bus | | | | | | | | | | | | | | | | | | | | | | | | |
| Smart Power Supply | | | | | | | | | | | | | | | | | | | | | | | | |
| SATA Bus | | | | | | | | | | ● | | | | | | | | | | ● | | | | |
| SCSI Bus | | | | | | | | | | ● | | | | | | | | | | ● | | | | |
| SDH/ATM/Sonnet Cu Connection | | | ● | | ● | | | | | | | | | | | | | | | | | | | |
| Sensor Lines | | | | | | | | | | | | | | | | | | | | ● | | | | |
| Sensor/Detector | | | | | | | | | | | | | | | | ● | ● | | | | | | | |
| Smart Card | | | | | | | | | | | | | | | | | | | | ● | | | | |
| T1/E1, T3/E3 | ◊ | | | | | | | | | | | | ● | ● | | | | | | | ◊ | | | |
| Touch Screen | | | | | | | | | | | ● | | | | | | | | | | | | | |
| USB OTG | | | | | | | | | | | | | | | ● | | | | | | | ◊ | | |
| USB1.1 | | | | | | | | | | | | | | | ● | | | | | | | ◊ | | |
| USB2.0 | | | | | | | | | | | | | | | ● | | | | | | | ◊ | | |
| USB3.0 | | | | | | | | | | | | | | | | | | | | ● | ◊ | ◊ | | |
| VGA | | | | | | | | | | | | | | | | ● | ● | | | | | ● | | |
| Video | | | | | | | | | | | | | | | | | | | | | | ● | | ● |
| Wireless LAN | | | | | ◊ | ◊ | | | | | | | | | | | | | | ● | | | | |
| Wireless WAN | | | | | ◊ | ◊ | | | | | | | | | | | | | | ● | | | | |
| X-Ray Scanner | | | | | | | | | | | | | | | | | | | | | | | | |

Recommended • Alternative ◊