

# APAX-5490

# APAX-5495

## 4-port RS-232/422/485 Communication Module

## 2-port CANopen Communication Module



APAX-5490

RoHS  
Compliant  
2002/95/EC

CE FCC



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CANopen

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### Specifications

#### General

- **Certification** CE, FCC class A
- **Interface** COM 1, COM 2: RS-232/422/485  
COM 3, COM 4: RS-232/422/485
- **Connectors** 1 x 26-pin clamp-type terminal
- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **Enclosure** ABS+PC
- **Weight** 180 g
- **Power Consumption** 2 W @ 5 V<sub>DC</sub> (typical)

#### Communications

- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** None, even, odd
- **Baud Rate** 50 bps ~ 230.4 kbps
- **Data Signals** RS-232: Tx+, RxD, GND  
RS-422: Tx+, Tx-, Rx+, RX-  
RS-485: Data+, Data-
- **FIFO** 256 bytes
- **Flow Control** Xon/Xoff

#### Protection

- **ESD Protection** 15 kV
- **EFT Protection** 2,500 V<sub>DC</sub>
- **Isolation Protection** 2,500 V<sub>DC</sub> (between COM port and backplane)

#### Environment

- **Operating Temperature** 0 ~ 60°C (mounted vertically)
- **Storage Temperature** -40 ~ 70°C
- **Relative Humidity** 5 ~ 95% (non-condensing)

### Ordering Information

- **APAX-5490-P4AE** Non Isolation 4-port RS-232/422/485 Comm. Module (Isolation is optional)

Note: APAX-5490 can only be used by controllers with a PCI express interface (ex. APAX-5580)

### Specifications

#### General

- **Certification** CE, FCC class A
- **Interface** 2 x CAN Bus
- **Connectors** DB9
- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **Enclosure** ABS+PC
- **Weight** 180 g
- **Power Consumption** 2 W @ 5 V<sub>DC</sub> (typical)

#### Communications

- **Protocol** CANopen
- **Speed** Max. 1 Mbits/s
- **Supports PDO transmission mode**
- **Supports NMT and SDO communication object**
- **Supports Heartbeat producer and consumer**
- **Supports Emergency objects**

#### Protection

- **Isolation Protection** 2,500 V<sub>DC</sub>

#### Environment

- **Operating Temperature** 0 ~ 60°C (mounted vertically)
- **Storage Temperature** -40 ~ 70°C
- **Relative Humidity** 5 ~ 95% (non-condensing)

### Ordering Information

- **APAX-5495-P2AE** 2-port CANopen Module

Note: APAX-5495 can only be used by controllers with a PCI express interface (ex. APAX-5580)