



## RuggedBackbone™ RX1500 Application Processing Engine

Industrial Computing Line Module

### Product Overview

RuggedCom's RX1500 Application Processing Engine (APE) is the ideal product to increase performance and functionality of the RX1500 multi-service platform. Leveraging the built in switching and routing platform of the RX1500, the APE is a utility grade computing platform that plugs directly into any member of the RX1500 family and enables customers to load and execute security and software applications directly on a RuggedBackbone™ device. From substation gateway, remote analytics and firewall to monitoring and control applications, the APE provides the computing power and reliability for mission critical applications.

The RX1500 APE is designed to the RuggedRated™ specification, which provides a high level of immunity to electromagnetic interference (EMI) and electrical surges. With an operating temperature range of -40° to +70°C (-40° to +158°F), the APE can operate in harsh environments.

### Features:

#### Benefits & Applications:

- Embedded design allows direct access to the RX1500 line module interfaces reducing the inventory of cables, devices and ports to manage
- Modular design for easy deployment and reduced maintenance
- Utility grade specifications for unmatched reliability and reduced outages
- Rack mount and DIN rail form factors available to fit specific application requirements
- Windows Embedded and most Linux<sup>2</sup> distributions are supported

#### RuggedRated™ for Reliability in Harsh Environments:

- Immunity to EMI and high voltage electrical transients
  - Meets IEEE 1613 (electric utility substations)
  - IEC 61850-3 (electric utility substations)
  - Exceeds IEC 61800-3 (variable speed drive systems)
  - Exceeds IEC 61000-6-2 (generic industrial environment)
- -40°C to +70°C operating temperature (no fans)

#### RX1500 APE Specifications:

- Operating temperature: -40 to +70°C
- CPU: ATOM E660T
- MIPS: 5,000 @ 1.3GHz
- RAM<sup>1</sup>: 2GB DDR2
- Storage<sup>1</sup>: 8GB SATA SSD (up to 16GB supported)<sup>2</sup> (~30 MB/sec)
- Face Plate: 2 x USB  
DVI-D  
1000BaseT RJ45  
PWR BUTTON  
Status LEDs
- Backplane: 1GigE Port Access

Note 1: Placed directly on-board and not removable.

Note 2: Please contact your Regional Sales Manager for details.



## Product Overview

The RX1500 APE can be ordered as a line module within any of the RX1500 Layer 2 and Layer 3 switch and routers and is configured as part of an RX15xx order code or as an individual part to be installed in an RX1500.

The APE has the configuration as shown below:

APE1402 – Intel Atom 1.3GHz, 2GB RAM, 8GB SATA, Video, USB

## Example Order Codes:

APE configured as part of an RX15xx order code:

**RX1510-L3-DIN-HI-HI-L3SE -FX01-FX01-6TX01-APE1402-XX**

One Layer 3 RX1510 unit, DIN Mounted, with 2 (two) HI power supplies, 2 (two) 2-Port 100FX Multimode line modules, 1 (one) 6-Port 10/100TX module, one Application Processing Engine, Layer 3 Standard Edition firmware

## APE Individual Part Order Code:

RX1500PN- APE1402-XX

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Patent Pending

All specifications in this document are subject to change without notice.

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