

DATA SHEET

To learn more, call 3D-P
at + 1.403.203.3018

Visit www.3d-p.com

MINING TOUGH

3D-P's Intelligent Endpoints are purpose built for mining and meet demanding environmental specifications. This makes the e200 ideally suited for deployment on heavy equipment.

RELIABLE COMMS

The e200 features onboard tools to seamlessly network your mining applications. 802.11N and LTE radios with connection managers designed specifically for use in the mining environment provide dependable connectivity.

REDUCE CLUTTER

The e200 Hornet features multiple hardware interfaces to connect to virtually all on-board systems, without the need for external switches or adapters, as well as shares interface resources and hosts 3rd party applications.

e200 Intelligent Endpoint®

Product overview

The e200 Intelligent Endpoint (IEP) combines all the features of the e55, e56, e57 and e58 Intelligent Endpoint products in a single, rugged enclosure. This simplifies procurement and inventory management while providing additional functionality across your entire Endpoint fleet. Optional LTE functionality is also provided through a convenient but secure front-panel SIM access port.



Intelligence at the Endpoints...

The IEP product line is a set of robust communication and computing devices designed specifically for mining and heavy industrial environments. Intelligent Endpoints enable the hosting of your choice of third party applications¹ on a single piece of hardware while at the same time providing a seamless connectivity solution to share common interface data between applications,² and aggregate and network all your existing or future on-machine mining applications.

Intelligent Endpoints are open computing platforms designed to be vendor agnostic. This gives you the flexibility to seamlessly network and/or host any mobile or field system regardless of manufacturer, including: dispatch systems, machine health systems, high-precision GPS, slope monitoring, dewatering systems, video cameras, safety & security systems and more.

The IEP Suite

The e200 IEP is designed to fully utilize 3D-P's IEP-SUITE of software tools which enable direct and simplified integration and management of multiple mining applications. Ultimately the IEP-SUITE and the e200 IEP allow customers to achieve maximum benefit and lowest integration costs from their investment in onboard hardware and wireless network.

¹ Subject to testing and certification of 3rd party applications.

² Depending on machine type, interface or application, some integration may be required.

REMOTE MANAGEMENT

All of 3D-P's Intelligent Endpoint Products can be remotely and securely configured from anywhere on your network using Endpoint Manager office software.

ADDITIONAL OPTIONS

- Multiple CPU options, including Quad Core and i7 models
- High precision GPS (multiple bands, single or dual antenna)
- Up to 8GB RAM
- 32, 64, or 128 GB SSD
- RS422/485 Interface
- VGA Connector

Specifications subject to change without notice.

Rugged Mobile Computing

Specifications

PROCESSOR / MEMORY / STORAGE

- Intel® Bay Trail dual-core Atom @ 1.33 GHz
- 2GB of DDR3 Memory
- 16GB mSATA SSD

OPERATING SYSTEM

- Linux OS

POWER SUPPLY

- 10 to 36 VDC overload protected
- Max Power Consumption: 35W

WIRED INTERFACES

- RS232 Serial x 6
- Up to 4 x Gigabit Managed Ethernet
- 2 x CAN 2.0
- 4 x Digital In
- 4 x Digital Out
- 1 x USB 2.0

GPS

- <3m accuracy (WAAS)
- GPS + GLONASS RTK (option)

INERTIAL MODULE

- Accelerometer
- Gyro

MECHANICAL

- 8" x 11.25" x 4.25"
- Weight: 5.5kg

ENVIRONMENTAL

- -40 to +75C (operational)
- Vibration: 10g
- Shock: 20g
- Ingress Protection: IP67

STATUS INDICATORS

- Power & Radio

AVAILABLE RADIO CONFIGURATIONS

- Dual 802.11N
- Rajant integrated
- 802.11N + LTE

802.11n & RAJANT SPECIFICATIONS

- 300 Mbps capable (2 x 2 MIMO)
- 2.4 / 5 GHz band support
- ME4-2450R or ME4-5050S with InstaMesh

CISCO INTEGRATIONS

- Embedded 5915 Router
- ESS2020 Switch

LTE SPECIFICATIONS

- Class 3 LTE UE
- 100 Mbps DL, 50 Mbps UL (2 x 2 MIMO)
- US/Can version LTE bands:
 - Band 2 (1900 MHz)
 - Band 4 (AWS)
 - Band 5 (850 MHz)
 - Band 13 (700 MHz)
 - Band 17 (700 MHz)
 - Band 25 (1900 MHz)
- International version LTE bands:
 - Band 1 (2100 MHz)
 - Band 3 (1800 MHz)
 - Band 7 (2600 MHz)
 - Band 8 (900 MHz)
 - Band 20 (800 MHz)

CONNECTORS

- Power & Serial: Amphenol 26482 Bayonet
- LAN 0: RJ Field RJ45
- LAN 1/2/3: Amphenol 38999
- CAN & DIO: Amphenol 38999 Bayonet
- SIM: Push-Pull (LTE models)
- Radios: N-type female

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