

# MILTECH™ 430E

## Integrated Soldier Power and Data Management System (ISPDS)

The modern digital soldier is a fully equipped, advanced weapon and communication system outfitted with many electronic devices. These devices, such as navigation systems, battery packs, headsets, warning sensors, video visor for weapons, night vision glasses, and many more items, are necessary for “modern” warfare. All these devices have to communicate by means of top quality, reliable connection and the MILTECH430E does it all.

MILTECH430E is an integrated soldier power and data management system (ISPDS) combining serial, Ethernet, discrete and SMBUS communication along with full smart power management for infantry soldiers.

The MILTECH430E outfits soldiers in the digital battlefield with a lightweight, fully integrated infantry combat ISPDS system. We offer a range of light-weight adaptable systems that are ideally suited for frontline forces in the most complex modern battlefield scenarios. This new and unique concept aggregates and delivers intelligence information along with all required communication in a tiny, light weight package that can be carried in smart combat vest solutions.



### SPECIFICATIONS

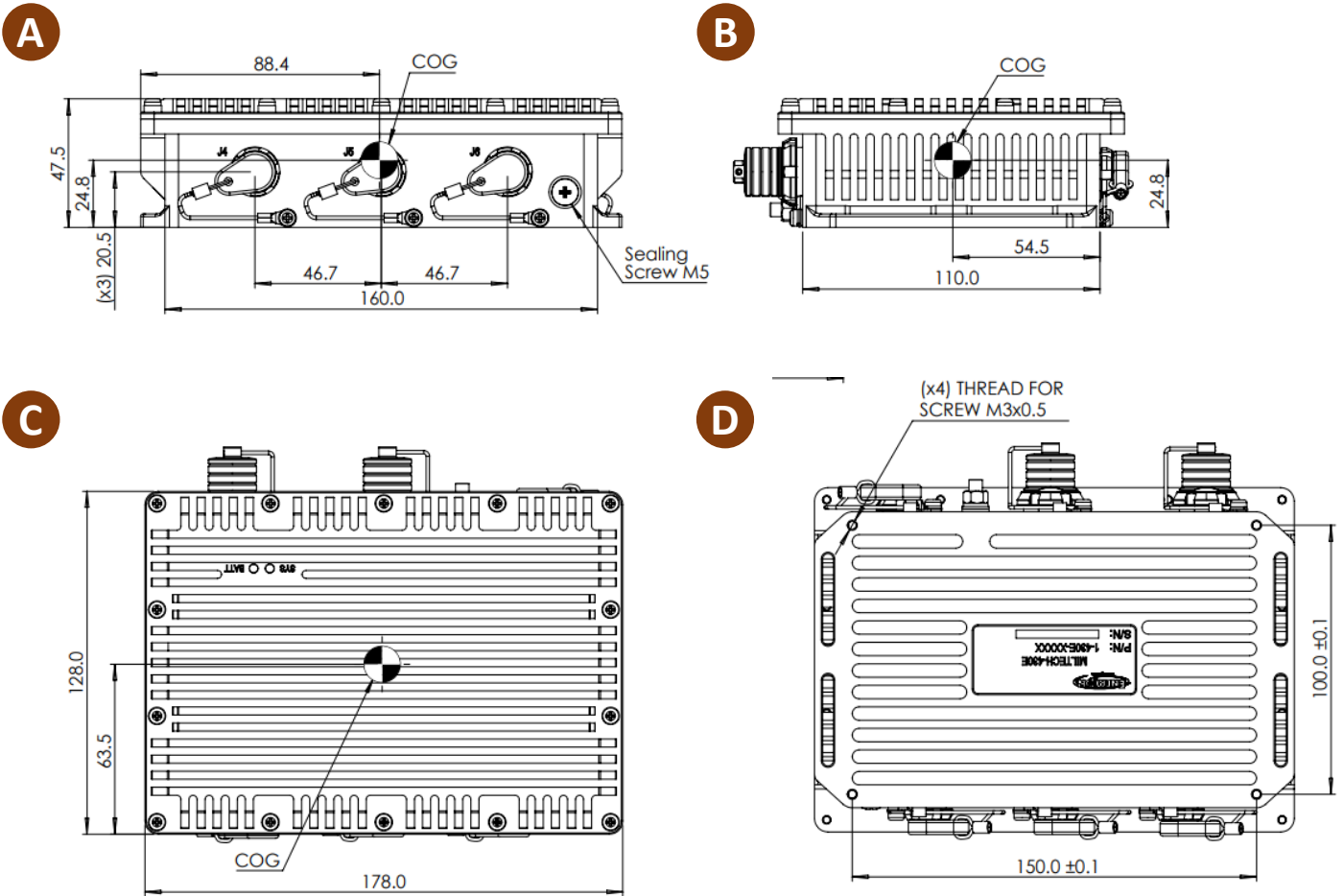
**PORTS:**

- 1 x 10/100 (Fast Ethernet) – J1
- 3 x 10/100/1000 ports – J4-J6
- 1 x USB for management
- 1 x Serial, RS-232
- 2 x Power source input (including SMBUS V2.0) for dual battery input or external power
- All ports provide Vbat according to ICD pinout



## SPECIFICATIONS

SYSTEM OVERVIEW:	<ul style="list-style-type: none"> <li>Full Power management per port: Online Current/Voltage Measurement per port Instant Power ON/ Off per port Over Voltage / Under Voltage / Short Circuit / Over current protections Online Power consumption per port Online Total System Power Consumption Batteries SoC (State of Charge) and Mission total time and power remaining</li> <li>Supported power modes: Operation from single external battery/external power source (10-16.8V, 16A max) Operation from two batteries/external sources with load share</li> <li>Loads (PAN) output supply: J1 – VBAT/10A max J4-J6 – VBAT/4A max Max unit current – 16A (including output load rails)</li> <li>Proprietary protocol for full control on all power and system parameters</li> </ul>																
CONNECTORS:	<ul style="list-style-type: none"> <li>2 x BAT: P/N - G83FOS-P12RP00-0000 (ODU)</li> <li>4 x PAN: P/N's G8AYCR-P19UC00-000L, G8AYBR-P19UC00-000L, G8AYDR-P19UC00-000L, G8AYAR-P19UC00-000L (ODU)</li> </ul>																
CHASSIS:	<ul style="list-style-type: none"> <li>Conductively cooled w/custom internal heat-sinks</li> <li>Ingress protection against sand, dust and moisture</li> <li>Anodize Coating, MIL-A-8625, Type II, Class 2</li> </ul>																
STANDARDS:	<ul style="list-style-type: none"> <li>Design to meet MIL-STD-461, Def-Stan 59-411, MIL-STD-810F, Def-Stan 00-35, IP68</li> </ul>																
STANDARDS COMPLIANCE:	<ul style="list-style-type: none"> <li>IEEE 802.3, IEEE 802.3u, IEEE 802.3z 10BASE-T, 100BaseTX, 1000BaseTX</li> <li>IEEE 802.3x Flow Control</li> <li>SMBUS V2.0</li> <li>RS-232, Asynchronous</li> </ul>																
ELECTROMAGNETIC:	<ul style="list-style-type: none"> <li>Design to meet – Def-Stan 59-411: DCE01.B, DCE03.B, DCS01.B, DCS02.B, DCS03.B, DCS05.B, DRE01.B, DRE02.B, DRS01.B, DCS10.B</li> </ul>																
ENVIRONMENTAL:	<ul style="list-style-type: none"> <li>Design to meet – Def-Stan 00-35:</li> </ul> <table border="0"> <tr> <td>High temperature and low humidity</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Low temperature</td> <td>Vibration</td> </tr> <tr> <td>Dust and Sand</td> <td>Bounce</td> </tr> <tr> <td>Rain</td> <td>Shock</td> </tr> <tr> <td>Immersion</td> <td>Dropping</td> </tr> <tr> <td>Solar radiation</td> <td>Fluid contamination</td> </tr> <tr> <td>Humidity</td> <td>Mold growth</td> </tr> <tr> <td>Corrosive atmosphere</td> <td>Chemical and biological contamination</td> </tr> </table>	High temperature and low humidity	Atmospheric pressure	Low temperature	Vibration	Dust and Sand	Bounce	Rain	Shock	Immersion	Dropping	Solar radiation	Fluid contamination	Humidity	Mold growth	Corrosive atmosphere	Chemical and biological contamination
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PHYSICAL:	<ul style="list-style-type: none"> <li>Dimensions: 128mm (W) x 178mm(L) x 47.5mm(H), including connectors</li> <li>Dimensions: 5.04" (W) x 7.00" (L) x 1.87" (H), including connectors</li> <li>Weight: 1.25Kg</li> <li>LED indication: Power, Status</li> <li>Dark Mode for LED indications via command</li> </ul>																
INSTALLATION:	<ul style="list-style-type: none"> <li>Set of 4 mounting slots for Mole strips</li> </ul>																
OPERATING TEMP:	<ul style="list-style-type: none"> <li>-40°C to +85°C (-40°F to +185°F) – Cold Start-Up</li> </ul>																
STORAGE TEMP:	<ul style="list-style-type: none"> <li>-40°C to +85°C (-40°F to +185°F)</li> </ul>																



For detailed dimensions and tolerances see Drawing: 1-430E-000-ICD

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-430E-000	Integrated Soldier Power and Data Management System (ISPDS)

- Additional standard configurations available. **Contact factory for more details.**  
Note: Specifications are subject to change without prior notice by the manufacturer.