

Integrated Product Center (IPC)-8303



Today's platforms require enhanced turnkey data link integration enabling mission success.

With its processing and software capabilities and ruggedized design suitable for harsh environments, the Rockwell Collins IPC-8303 data link processor meets those needs. The IPC-8303 is a stable subsystem that can be configured to fulfill a wide array of custom requirements. The IPC-8303 provides a partitioned host environment that can support third-party software applications.

PROCESSING

- › Intel® Pentium®-M (738), 1.4 GHz, 2 Mb L2 cache (10 watts)
- › 512 Mb, 1 Gb and 2 Gb module-optional
- › Power PC-optional

HARDWARE

- › Qty 8 3U compact PCI slots
- › Commercial standard Ethernet switch
- › High integrity Ethernet switch-optional
- › MIL-STD-1553
- › IEEE 802.3 Ethernet
- › Graphics and video
- › PMC

SOFTWARE

- › Cursor on Target (CoT) processing
- › OpenEdge™ data link processing
- › Flexible host adapter architecture
- › Service oriented architecture
- › MIDS LVT bus controller
- › J-Series message processing
- › Options
 - ARC-210 radio control
 - REAP-A, B, C
 - RE gateway - JRE gateway
 - SADL

KEY BENEFITS

- › Ruggedized design suitable for harsh environments
- › Flexible message handling
- › Adaptable link terminal and host interface architecture
- › Distributed mounting of system component

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SPECIFICATIONS

Environment capabilities

Temperature	-40°C to +55°C operating +71°C intermittent operation -57°C to +85°C storage
Rain	MIL-STD-810F, Method 506.4, Procedure III - Drip
Humidity	MIL-STD-810F, Method 507.4
Salt-spray/fog	MIL-STD-810F, Method 509.4
Sand/dust	MIL-STD-810F, Method 510.4, Procedures I & II
Explos. atmosphere	MIL-STD-810F, Method 511.4, Procedure I
Sine-on-Random-Vib	MIL-STD-810F, Method 514.5, Procedure I, Category 14 – Helicopter
Shock, operational	MIL-STD-810F, Method 516.5, Procedure I
Shock, crash safety	MIL-STD-810F, Method 516.5, Procedure V
Gunfire vibration	MIL-STD-810F, Method 519.5
Reliability	> 5,000 hours in an airborne rotary wing environment

EMI/EMC Capabilities

ADS-37A-PRF
MIL-STD-461E
RTCA DO-160D Lightning

Physical Description

Height	7.62 in
Width	5.0 in
Depth	12.62 in excluding fan protrusion
Weight	12-15 pounds (varies based upon card configuration)
Power	120 W max +28 VDC

IPC-6000 Products

PSM-8600	822-1850-001
VPM-8600	822-1851-001
MT-8600	822-1852-001
VPM-8600A	822-2017-001
Power cable	983-4317-001

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