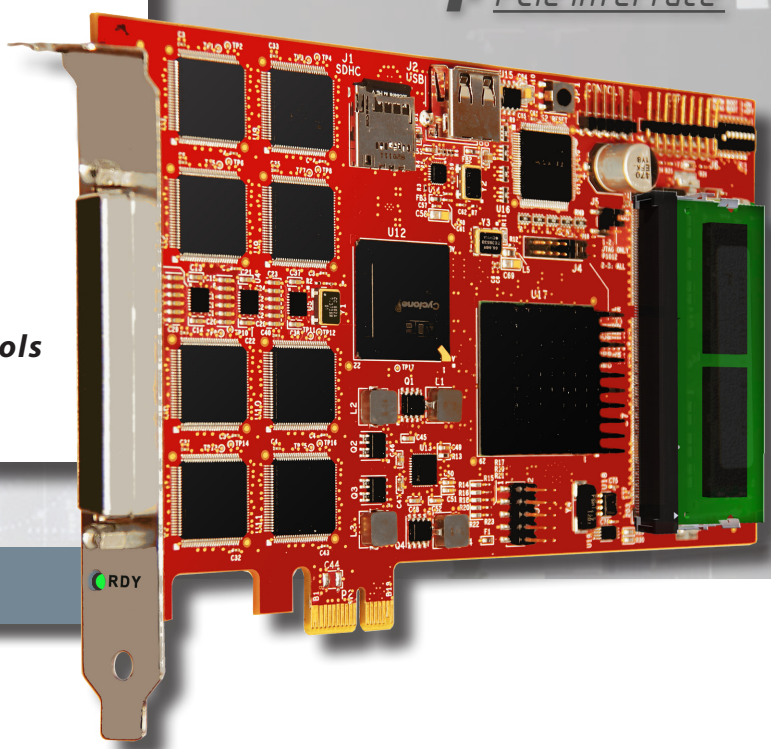
Mission-Critical Data Interoperability

Longport Express

Serial Communications Adapter

PCIe Interface

- ***PCI Express based solution for PC's, Workstations, and Servers***
- ***API, device drivers, tools, and documentation provided***
- ***Interface up to 8 - DB25 Serial Ports***
- ***Synchronous and Asynchronous Protocols***



ICA/SCA64 Replacement PCIe Card

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For the past two decades

Sunhillo has been manufacturing and distributing the FAA fielded ICA/SCA64 PCI Serial Communication Adapter board (ICA/SCA64). As technology has advanced, Workstation, PC and Servers have replaced the internal mother board PCI interface slot with an enhanced version known as PCIe or PCI Express. Our new Longport Express takes advantage of this new interface with same quality and reliability as it's predecessor but now, in the predominate interface customers demand for synchronous and asynchronous protocol in a multi-port intelligent adapter boards. Sunhillo has developed an advanced 8-port PCI Express version of the ICA/SCA64 based on the same proven hardware & software as our FAA deployed Longport products.

The Longport Express is an intelligent PCI Express board providing greatly improved hardware functionality and an open software platform to build upon. The supplied interface cable splits out the high-speed 160 pin connector to 8 - DB25 female serial connectors used for Data conversion. The architecture features a Freescale PowerPC P1012 processor, QUICC Engine, and 4 FPGA-based Z85230 UARTs. In addition to the standard synchronous/asynchronous UARTs, the Longport Express features hardware assisted 13-bit synchronous input streaming for receiving CD-2 RADAR and similar surveillance data protocols.

Sunhillo provides API's, device drivers, tools, and documentation to make the transition from ICA/SCA 64 to Longport Express boards as easy as possible for all our existing customers and provide an open platform for new users.

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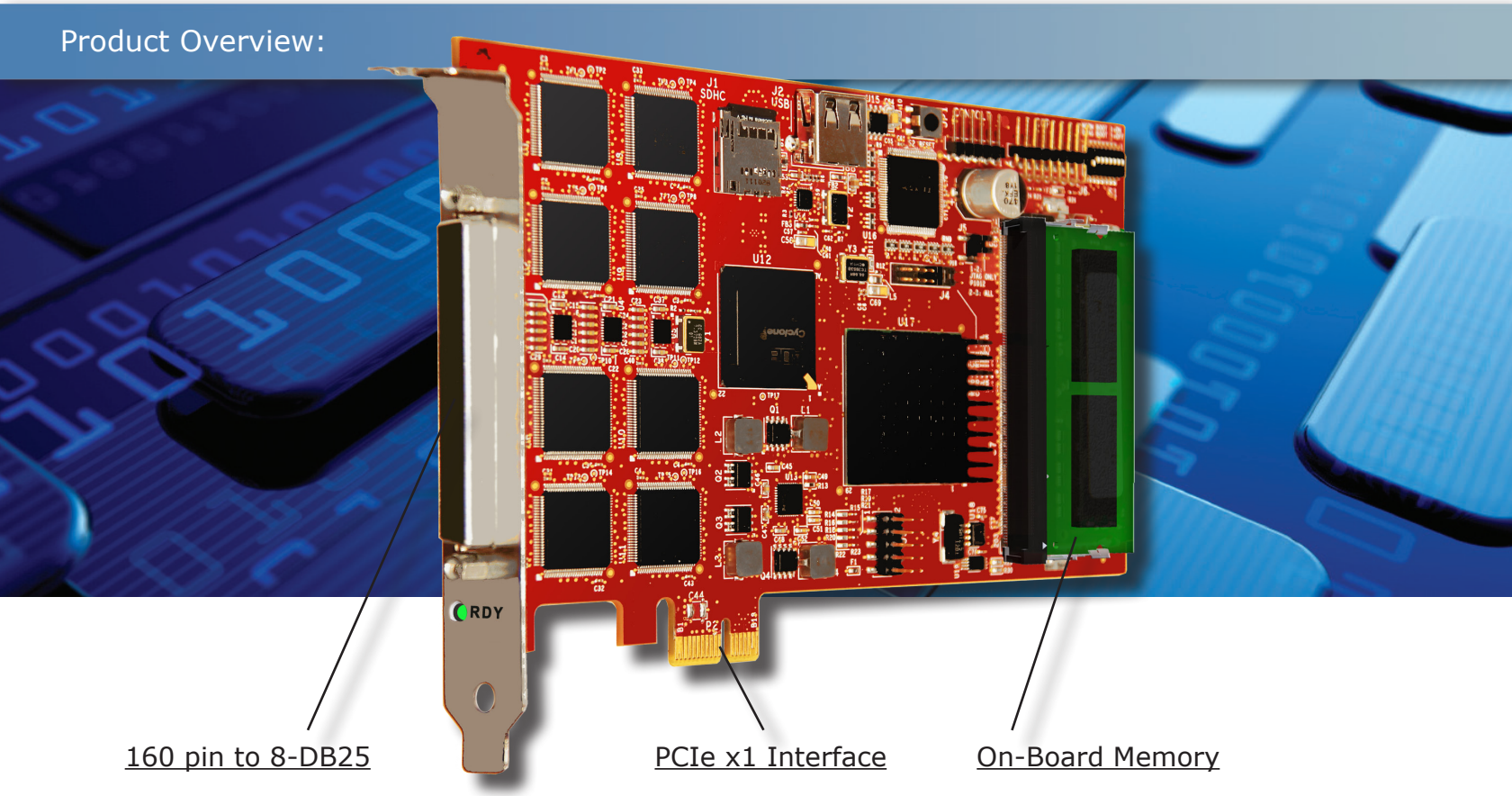
Technical Specifications:

Longport Express System Interface Characteristics				
Serial Port Controls	Supported OS	Protocols	Message Format	Clock Sources
RS-232 (V.28) RS-422 X.21 (V.11) V.35 (V.35 & V.28) EIA-530A (V.10 & V.11) RS-449/V.36 (V.10 & V.11) RS-485	Linux CentOS Fedora Ubuntu AIX 4+up Solaris Win7+up available on customer request.	CDRADAR (13-bit radar) TPS-75 Radar (9-bit radar) Asynchronous Bisync Interfacility HDLC Transparent HDLC DTE/DCE HDLC ADCCP/ADCCP_P	ASTERIX CD-2 / ASR-9/11 Radar Mode 4 / Mode S MAR / TPS75 / ARTS AIRCAT-500 SGF ADS-B Custom	DCE DTE Split Clock Note: Unit can generate and/or receive clock on each port

Description	Specifications	Standard
EMC Compliance	Federal Communications Commission (FCC)	Part 15, Class B
Safety Compliance	Underwriters Laboratories	(UL) 60950
Environmental Compliance	RoHS (Restriction of Hazardous Substance)	EU Directive 2002/95/EC
PC Bracket	Standard Height	
Architecture Features	Freescale PowerPC P1012 processor, QUICC Engine, and 4 FPGA-based Z85230 UARTs	
Max Data Rate	2.0 Mbps	
Max Data Distance	150 feet (RS-232), 4000 feet (RS-422/485)	
Operating Temperature	0 - +70C	
Storage Temperature	-50 - +56C	
Humidity Operating	55°F to 85°F, 85% Humidity (12°C to 30°C, 85% Humidity)	MIL-STD-810F – Method 507.4
Humidity Non-Operating	86°F to 133°F, 95% Humidity (30°C to 56°C, 95% Humidity)	MIL-STD-810F – Method 507.4

Product Overview:



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