SR1PRO

Advanced DVB-S2 Receiver
with a GigE Interface

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meet SR1PRO

The SR1PRO advanced DVB-S2 receiver with a GigE interface, an IP-over-satellite receiver, gives service providers a strong competitive edge. SR1PRO's best cost-performance parameters lead the market.

With its support of advanced modulation modes at 16 and 32 APSK the SR1PRO delivers more performance at lower cost and significantly reduces long-term operating costs.

With its advanced Demodulator the SR1PRO supports symbol rates from 0.125 to 67.5Msps.
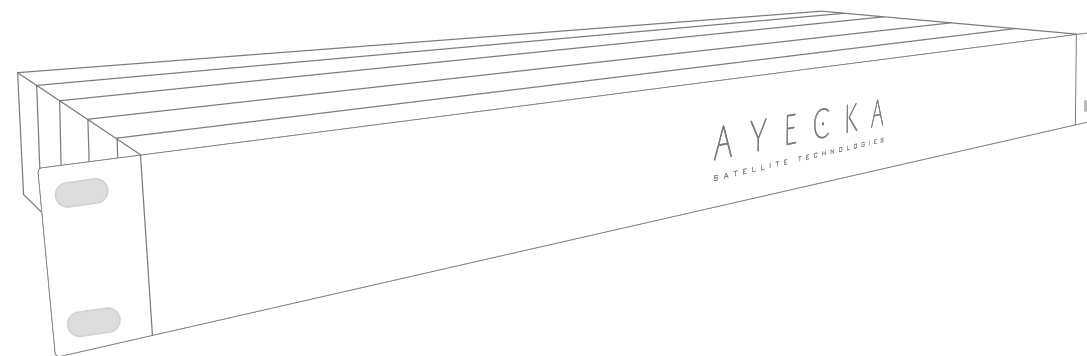
Product Highlights

Professional DVB-S2 receiver supporting ACM, VCM, 16/32 APSK

GigE interface to support full DVB-S2 transponder

Supports MPE and Generic Stream (GSE) – Different images on same Hardware

Wire speed processing of traffic – full hardware implementation

Support for Application CPU daughter board – Inchassis network port

Independent local and separate l IP interface for management

Stand-alone device – support all OS over IP network. No Drivers required

Embedded management software – Automatically returns to full operation after power cycle

Real time link status messages – high rate, over UDP

Low jitter – optimal for Video over IP/DSNG

Competitive pricing – Offered in rack mount, desktop and board only

Field upgradable to TC1Pro – for link analysis and output of BBF over UDP

Compliant with Eumetcast service

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Enhanced Features

Focus on Reception – SR1PRO's unique architecture focuses on satellite reception and DVB-S2 to IP conversion, leaving data routing to external routers. SR1PRO provides complete implementation of the DVB-S2 receiver (including ACM, VCM, multi-stream and more) and MPE or GSE decapsulation.

Wire-speed – SR1PRO handles traffic from the satellite to the network via dedicated hardware, supporting payload rates of up to 240Mbps and eliminating the bottleneck caused by CPU processing. Wirespeed provides low jitter, making the SR1Pro optimal for delivery of Video over IP.

GigE – Provides gigabit Ethernet as a standard interface

Highly Efficient Hardware – SR1PRO is a highly specialized hardware platform supporting different modes of operation and completely customizable to unique customer needs, reducing initial capital expenses and long-term operating costs while eliminating vendor lock in off-the-shelf with a fixed spec.

Generic Stream (GSE) – SR1PRO supports the new generic stream IP over DVB-S2 encapsulation, offering improved efficiency compared to the multiprotocol encapsulation (MPE) and support for L2 networking.

Easy Integration – Provides IP or MPEG-TS over DVB-S2 reception across most network architectures.

Flexible Management Interface - Provides an independent management interface supporting CLI, Telnet, and SNMP. High speed, real time link status indication over UDP – idle for antenna control, ACM and link quality analysis.

Highly Competitive Pricing – Ayecka's SR1PRO offers advanced technology at more than 50% less than other similar devices on the market.

Applications

SCPC – The superior RF front end and support for high bit rates makes the SR1PRO an optimal solution for reception of SCPC signals.

Terrestrial return channels – combined with terrestrial microwave links like MDS, MMDS and MVDDS, the SR1PRO allows service providers to offer broadband connectivity to residential customers.

Data casting – For one-way distribution networks, the SR1PRO offers high throughputs in small form factor and competitive price.

VSAT Throughput boosting – The simple integration with VSAT allows service providers to overcome the throughput limitation of most VSATs, allowing the customer to enjoy the advantages of VSAT service and the throughputs of SCPC

DSNG and video over IP – Wirespeed implementation provides low jitter to assure simple delivery of video over IP/DSNG

Antenna control – EsNo, Lock status and Power estimation sent over UDP in high rate, simple integration with antenna controller

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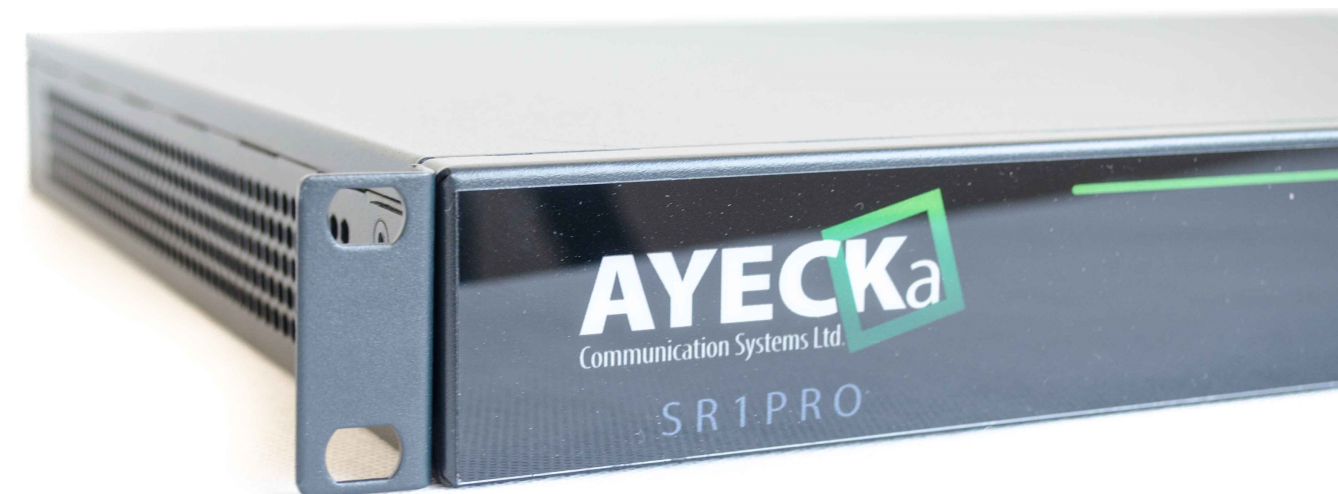
SR1PRO   technical specifications

Receiver DVB-S2 mode

Modulation	QPSK, 8PSK, 16APSK, 32APSK
Channel Rate	From 0.1Msps to 67.5Msps
Channel Rate	Up to over 240 Mbps
Roll-off factors	0.15, 0.2, 0.25, 0.35
Coding	LDPC and BCH decoder as for DVB-S2 requirements
Code Rates	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Framing	TS or BBF CCM, VCM, ACM
Input Freq	950-2150MHz Signal Level -35 to -75 dBm
Symbol Rates	125 ksps to 67.5 Msp (Low SR require PLL LNB)
Input connector	Type F, 75 Ohms
LNB power	14/18V, 22Khz, DiSEqC 2.0

Receiver DVB-S2 mode

Serial port	Serial over USB CLI
IP	10/100 BaseT interface CLI and SNMP Management IP setting – Static or DHCP
Upgrade	Software and Firmware are field upgradeable

Physical Characteristics

Dimensions	(H x W x D) 4.4 cm x 48.3 cm x 17 cm
Power	100V-240V AC
Weight	1.2 Kg

IP Interface

Interface	10/100/1000 BaseT
Packet handling	UDP/IP
Traffic IP address	Static or DHCP
VLAN	Configurable
DSCP	Configurable

Environmental Conditions

Operating Temp.	0° to 50° C.
Storage Temp.	-25° to +85° C
Humidity	5% to 95% non-condensing

Standard Compliance

Safety	CE or equivalent
EMI/EMC	FCC part 15, class A

For more information and detailed pricing please contact: sales@ayecka.com

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