

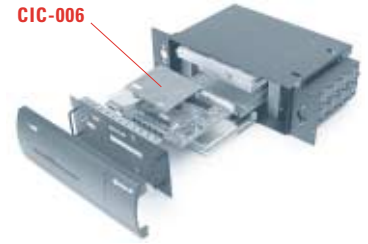
Aprisa SE and the Customer Interface Card (CIC) plug-in module are designed to enable network operators to configure a wireless link with the interface option best suited to their specific application.

CIC-006 provides an efficient solution for MPT1327, Smart Trunk and other similar analog trunked mobile radio operators seeking to interlink base stations to the base station controller. CIC-006 uses 4-Wire VF circuits to deliver analog voice between the switch node and the base station, and a V.24/RS-232 circuit for control signals.

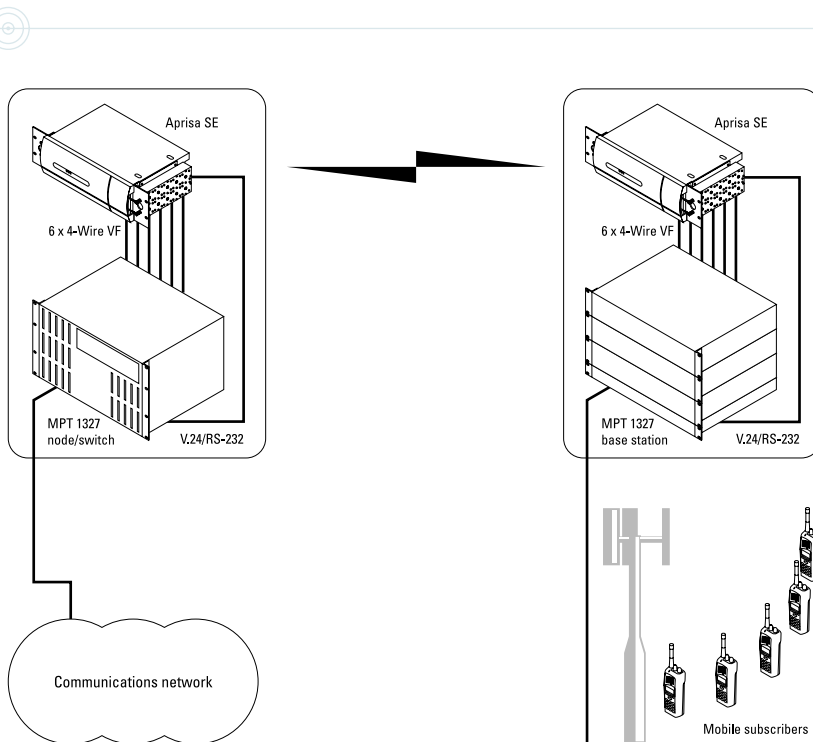
PRODUCT OVERVIEW

CIC-006 can deliver up to six 4-Wire VF (no E&M) circuits and one asynchronous V.24/RS-232 circuit. Each 4-Wire circuit digitizes the analog signals at 64 kbps PCM, or 32, 24, 16 kbps ADPCM. Each 4-Wire circuit can be set independently of the others. This enables the network provider to optimize the bandwidth used and offer different grades of service on a per circuit basis.

The asynchronous V.24/RS-232 port will support a number of data rates from 300 bps to 38.4 kbps selected via the Aprisa Setup software. Two control lines are used for handshaking. The CTS signal is transported across the link and will appear as RTS at the remote terminal. DSR will appear as DTR at the remote terminal.



- 6 x 4-WIRE VF SUPPORTING 64 KBPS PCM AND 32, 24 AND 16 KBPS ADPCM AUDIO
- 1 x V.24/RS-232 ASYNCHRONOUS DATA PORT SUPPORTS RATES FROM 300 BPS UP TO 38.4 KBPS
- CONFIGURED USING WINDOWS® BASED APRISA SETUP™ SOFTWARE
- COMPLIANT WITH INTERNATIONALLY RECOGNIZED STANDARDS



APRISA SE DIGITAL ACCESS RADIO

Aprisa SE is the simple, cost-effective solution to a wide range of low capacity point-to-point digital radio applications.

Compact and simple to install at any site, Aprisa SE is also easy to use, reducing user expertise requirements, and minimizing the need for additional equipment.

Aprisa SE incorporates a single customer interface card (CIC), with a specific mix of interfaces optimized for the application needs, such as simple fractional E1 and Ethernet, or a complex combination of analog voice and digital data circuits.

CIC-006 SPECIFICATIONS

ABOUT 4RF

PORT 1, 2 & 3: 4-WIRE VF (2 INTERFACES / PORT)

Bandwidth	Audio	64 kbps (PCM A-law as per ITU-T G.711) 32, 24 and 16 kbps (ADPCM as per ITU-T G.726 and ANSI T1.303)
	Maximum line length	600 m
Analog parameters	Standard	ITU-T G.712
	Nominal level	0 dBm
	Maximum level	+3 dBm
	Input gain adjustment	0 or +6 dB
	Output gain adjustment	-6 or 0 dB
	Dynamic range	50 dB
	Normal impedance	600 Ω
	Return loss	Better than 25 dB
	End-to-end gain	0 dB ± 0.6 dB (300 to 3000 Hz) 0 dB ± 1.5 dB (250 to 3400 Hz)
	Signal line protection	18 V clamp
Diagnostics	Software	Local and remote alarm logging Local and remote software set loopbacks Green LED: Circuit 1 transmitting or receiving audio Yellow LED: Circuit 2 transmitting or receiving audio
	Hardware interface port	

PORT 3: V.24/RS-232

General	Interface	ITU-T V.24/EIA RS-232E
	Bandwidth allocation	8 to 48 kbps in 8 kbps steps (dependant on rate selected)
	Control line allocation	8 kbps
	Maximum line length	10 m
	Data clamp	Mark hold when out of sync
	Control line clamp	Off when loss of sync
Asynchronous parameters	Clock	Internally generated
	Transparent mode	Operation is completely transparent up to 600 bps (select 300 bps)
	Standard mode data bits	5, 6, 7, 8
	Standard mode parity	Transparent (enable/disable)
Control signals	Standard mode stop bits	1, 2
	Data rates	300 bps, 1.2, 2.4, 4.8, 9.6, 14.4, 19.2, 28.8, 38.4 kbps
Diagnostics	End-to-end	CTS-RTS, DSR-DTS
	Software	Local and remote alarm logging Local and remote software set loopbacks Green LED: Receive data Yellow LED: Transmit data
Hardware interface port		

SOLUTION LEADERSHIP

To ensure 4RF systems remain at the forefront of point-to-point wireless solutions, we're committed to substantial ongoing investment in engineering expertise and R&D.

QUALITY ASSURANCE

To ensure our products' performance is second to none, we invest in high-quality manufacturing and testing resources, leveraging New Zealand's engineering expertise and low cost-base.

COMPREHENSIVE SUPPORT

To assure your success, our internationally recognized engineering and technical expertise is available to support you via consultancy, business case advice, network design and path planning. Our worldwide distributor and support infrastructure provides prompt communication, technical support and training.

BUSINESS INTEGRITY

New Zealand, our home base, has a safe political and financial environment from where we manage our company based on international best practice.

JUST CALL US

We invite you to tell us about your network and what you would like to achieve. We'd be pleased to visit and present our credentials, table our reference sites and testimonials, help you prepare a network design plan, and demonstrate our solutions.



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