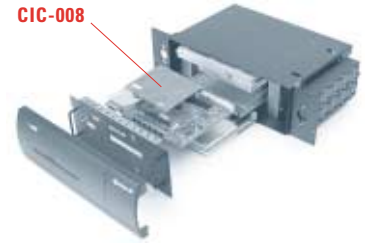


Aprisa SE and the Customer Interface Card (CIC) plug-in module are designed to enable network operators to configure a wireless link with the interface option best suited to their specific application.

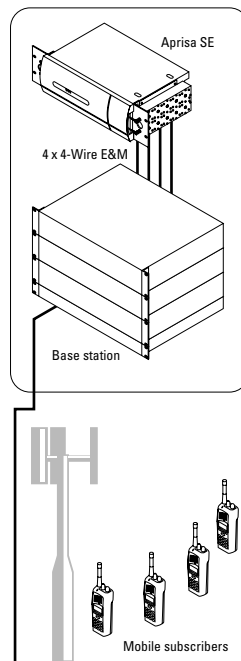
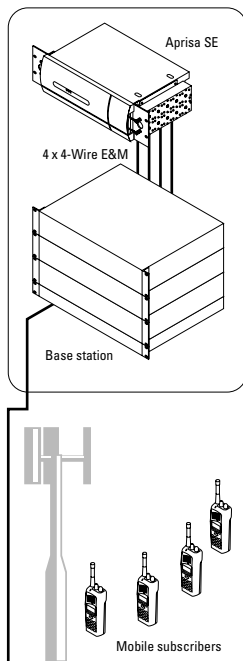
CIC-008 will enable the delivery of analog circuits from a communications hub to a remote site. For example, it can be used to link a remote office PABX to the central PABX using 4-Wire circuits as tie lines, or to interconnect base stations in conventional analog mobile radio networks.

**PRODUCT OVERVIEW**

CIC-008 provides four 4-Wire circuits, each capable of supporting E&M signaling. Each 4-Wire circuit digitizes the analog signals at 64 kbps PCM, or 40, 32, 24, 16 kbps ADPCM. The E&M signals have no internal voltage or earthing connections, allowing them to be externally strapped to meet EIA-464 types I, II, IV, or V. The M signal is transmitted end-to-end across the link with minimal added delay to the remote E Signal. The E&M signaling can be used to provide signaling between the PABX or for keying transmitters in analog mobile radio networks.



- 4 x 4-WIRE E&M SUPPORTING 64 KBPS PCM AND 40, 32, 24 AND 16 KBPS ADPCM AUDIO
- ADJUSTABLE INPUT AND OUTPUT GAIN
- 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-008 SPECIFICATIONS

## PORT 1, 2, 3 & 4: 4-WIRE E&M

Bandwidth	Audio	64 kbps (PCM A-Law as per ITU-T G.711) 40, 32, 24, 16 kbps (ADPCM as per ITU-T G.726 and ANSI T1.303)
	E&M signaling Maximum line length	8 kbps per port 400 m
Analog parameters	Standard	ITU-T G.712
	Nominal level	-10 dBm
	Maximum level	-7 dBm
	Input gain adjustment	-6.5 to +40 dB in 1.5 dB steps
	Output gain adjustment	-26 to +2 dB in 2 dB steps
	Dynamic range	50 dB
	Normal impedance	600 Ω
	Return loss	Better than 25 dB
	Transformer isolation	2000 V <sub>rms</sub>
	End-to-end gain	0 dB ± 0.6 dB (300 to 3000 Hz) 0 dB ± 1.5 dB (250 to 3400 Hz)
Signalling	Signal line protection	62 V, 0.5 A fuse
	Signal to total distortion	> 30 dB (0 to -30 dBm0), > 22 dB (-45 dBm0)
	Idle channel noise	< -70 dBm0
Signalling	E&M	Mode independent (external power supply required)
	Pulse distortion	Better than 150 μs
	M loop current	6.5 mA maximum (constant current)
	M detection voltage	12 V
	M maximum voltage	60 V
	E circuit impedance	45 Ω closed, > 100 kΩ open
	E maximum current	100 mA
	E maximum voltage	60 V
E&M circuit protection	100 V, 0.5 A fuse	
Diagnostics	Software	Local and remote alarm logging Local and remote software set loopbacks
	Hardware interface port	Green LED: M circuit active Yellow LED: E circuit active

# ABOUT 4RF

## 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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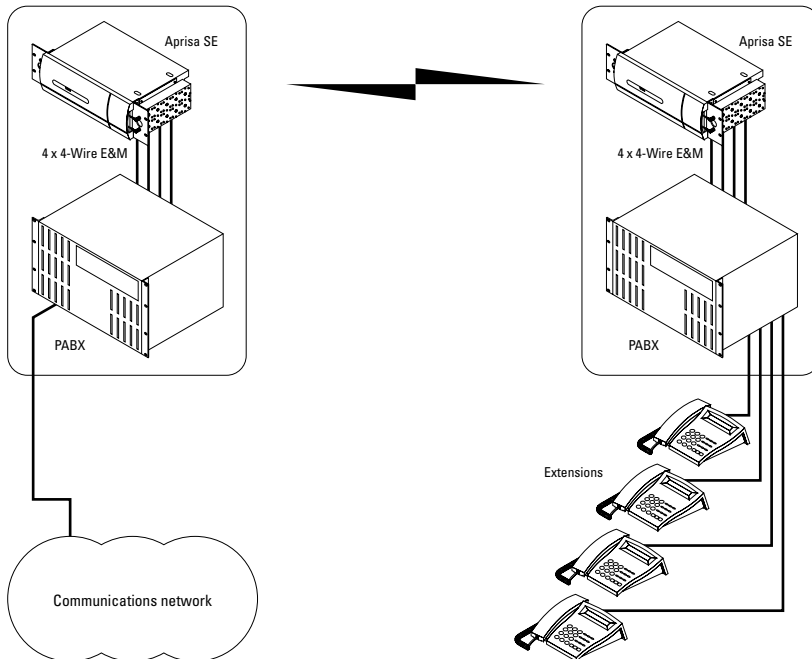
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VERSION 3-0



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