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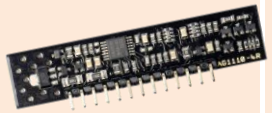
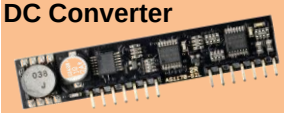
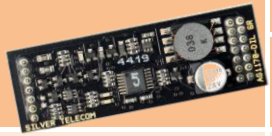
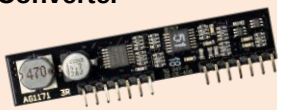
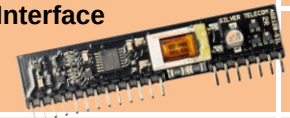
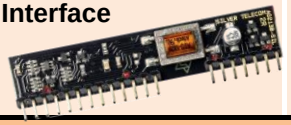
Telecom Interfaces Selector Guide

	Product Family	Part No.	Nominal Input Voltage	Operating Temperature Range	Format/External Components Required	Features
Telecom Interface Modules	SLICs (Subscriber Line Interface Circuits)	**Ag1110** **Low Cost PBX SLIC** 	**Ag1110**	V_{BAT} -48V V_{CC} +5V	0°C to +70°C	Single-in-line (SIL) 55mm (L) x 13.5mm (H) x 5mm (T) External Ringing Generator Bridge Rectifier x1, Diode x1, x4 Resistors, x1 PTC Thermistor, x1 Relay, x5 Capacitors	External Ringing. $Z_{IN} = Z_{BAL} = 600R$ Constant Current line feed with Constant Voltage fold-over. I_{LOOP} = 16mA into 2K Loop (inc. telephone set) approx. 10km. Loop Off function - remove I_{LOOP} under fault conditions. SHK supervision. Short Circuit Protection. Minimal external circuitry required. On-hook Transmission capability for CLID, Metering, etc.
		Ag1170 **Ringing SLIC with DC-DC Converter**  	**Ag1170S-3**	3.3V	0°C to +70°C	Single-in-line (SIL) or Dual-in-line (DIL) format (only for 5V variant). SIL : 61mm (L) x 12mm (H) x 12mm (T) DIL : 51mm (L) x 19mm (W) x 12mm (H) Bridge Rectifier x1, Zener Diode x1, Capacitors x6, Resistors x2, Transistor x1	On-board Ringing (Capable of $40V_{RMS}$ into REN = 3) $Z_{IN} = Z_{BAL} = 600R$ Constant Current line feed I_{LOOP} = 24mA. Maximum Loop = 800R (inc. telephone set) approx. 3km. SHK supervision. Line Polarity Reversal. Power Down mode. Short Circuit Protection. Minimal external circuitry required. On-hook Transmission capability for CLID, Metering, etc.
			Ag1170S-5	5V			
			Ag1170D-5* *** -1k MOQ applies**				
			Ag1170PS-5			Single-in-line (SIL) format. As per Fixed Impedance variants plus 6 programming elements (a combination of Resistors and Capacitors) - see Application Note AN1170-1.	As per '-S & '-D variants but with Programmable Impedances.
		Ag1171 **Low Cost Ringing SLIC with DC-DC Converter** 	**Ag1171**	3.3V or 5V	0°C to +70°C	Single-in-line (SIL) 61mm (L) x 12mm (H) x 12mm (T) Bridge Rectifier x1, Zener Diode x1, Switching Diode x1, Capacitors x4, Resistor x1	On-board Ringing (Capable of $40V_{RMS}$ into REN = 3) $Z_{IN} = Z_{BAL} = 600R$ Constant Current line feed I_{LOOP} = 30mA. Maximum Loop = 470R (inc. telephone set) approx. 1km. SHK supervision. Line Polarity Reversal. Power Down mode. Over-Voltage and Short Circuit Protection. Minimal external circuitry required. On-hook Transmission capability for CLID, Metering, etc.
	COICs (Central Office Interface Circuits)	**Ag2120** **Fully Featured PSTN Interface** 	**Ag2120-S**	3.3V or 5V	0°C to +70°C	Single-in-line (SIL) or Dual-in-line (DIL) format. SIL : 61mm (L) x 12mm (H) x 11mm (T) DIL : 51mm (L) x 19mm (W) x 11mm (H) 600R Z_{IN} & Z_B requires Resistors x4, Capacitors x4 and Protection Components : PTC Thermistor x1 and Transorb x1 DC Mask programming Resistor x1	Transformer isolated. Integrated Loop Switch. Loop Start, Ringing Detection, Loop Current Detection & Tip/Ring Polarity Detection Supports On-hook Reception. Programmable DC Mask, Line & Network Balance Impedances supporting Worldwide impedance requirements.
			Ag2120-D				
		Ag2130 **Low Cost PSTN Interface** 	**Ag2130**	3.3V or 5V	0°C to +70°C	Single-in-line (SIL) 61mm (L) x 12mm (H) x 11mm (T) 600R Z_{IN} & Z_B requires Resistors x4, Capacitors x5 and Protection Components : PTC Thermistor x1 and Transorb x1 DC Mask programming Resistor x6, Capacitor x2	Transformer isolated. Integrated Loop Switch. Loop Start, Ringing Detection, Loop Current Detection. Supports On-hook Reception. Programmable DC Mask, Line & Network Balance Impedances supporting Worldwide impedance requirements.

Silvertel also designs & manufactures a range of power modules for PoE applications, DC-DC Converters and Battery Charge Control products. All Silvertel's modules are cost optimised and manufactured in the UK ensuring the highest quality at competitive pricing. Visit our website at www.silvertel.com