BB-232CL9R

Current Loop to Serial Converter

Features

- Optically isolated digital current loop to serial conversion
- Baud rates up to 19.2 kbps
- Inline installation
- Transmit (T+ and T-) loop and Receive (R- and R-) loop
- Each current loop may be operated active or passive
- Designed for 20mA digital current loop
- Power supply required, not included, sold separately

Introduction

Model BB-232CL9R is a port-powered RS-232 to current loop converter. No external power required for passive loop installations, but a power supply is required to generate an active loop (power supply sold separately).

Current Loop Explained

Current loop devices use Current On or Curre nt Off to transmit binary digits. Current loop signals can often transmit over circuits that serial signals can't traverse reliably, due to distance, marginal conductors and electrical noise.

Current loop converters from Advantechinterface RS-232 to the most common current loop ports – 20mA with open circuit voltages up to 30 V – at a maximum baud rate of 19.2 kbps. High speed o ptical isolators couple and isolate Transmit and Receive data. All Advantech current loop converters have a transmit (T+ and T-) loop and a Receive (R+ and R-) loop. Each loop may be operated as an active or passive loop. When the converter needs to provide the loop current, a 12 VDC power supply is required for the current loop side.

Ordering Information

Model No.	Serial Connector	Current Loop Connector	Power Source for Serial Side
BB-232CL9R	DB9 Female	Terminal Block	Port-powered or external power supply (sold separately)

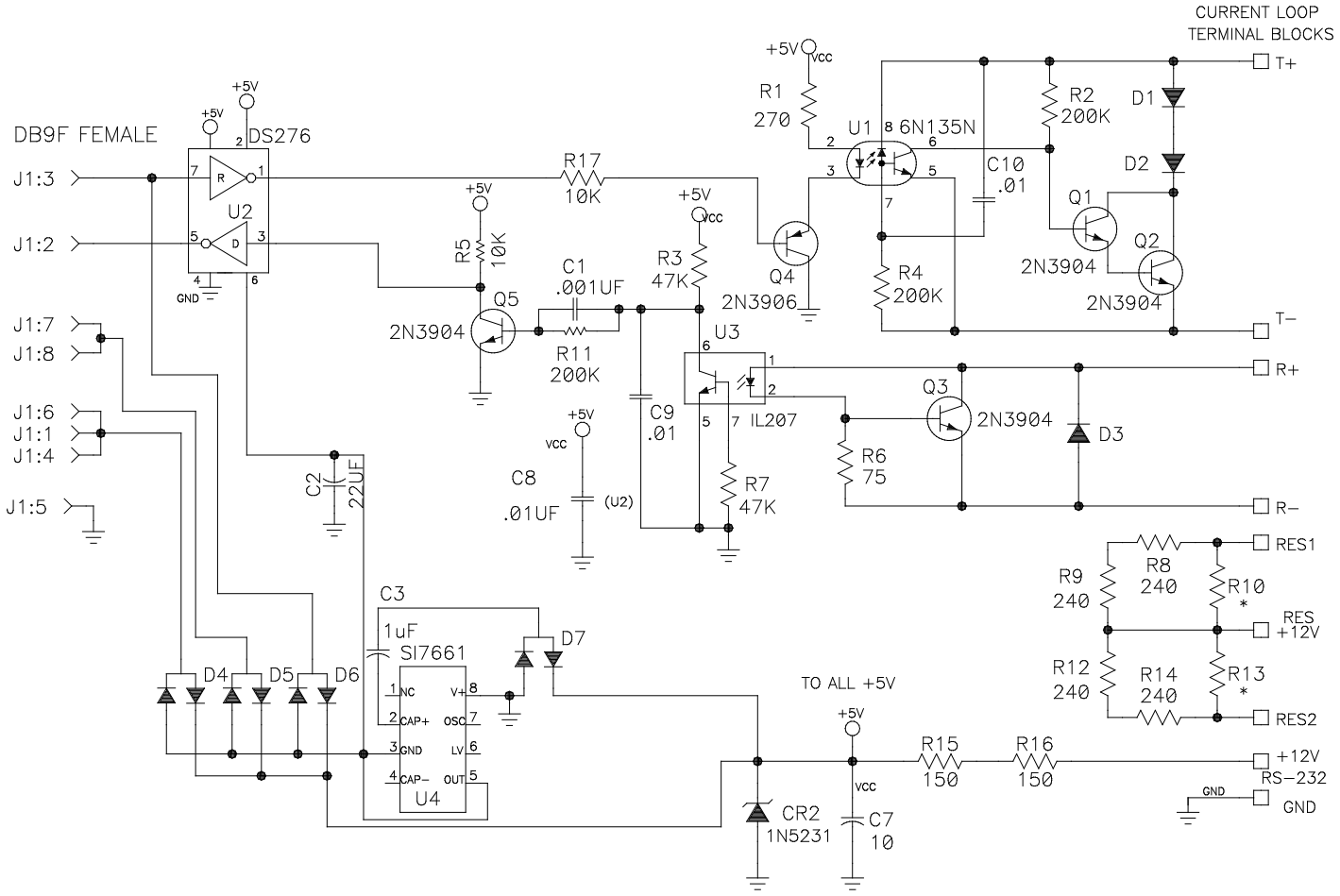
Accessories – Sold Separately

BB-SMi6-12-V-ST - Power Supply, 12Vdc, 500 mA, stripped and tinned leads, Level VI

Specifications

Serial Technology	
Data Rate	19.2 kbps, maximum
RS-232	
Connector	DB9 female
Signals	TD, RD, GND
Current Loop	
Connector	Terminal block
Signals	T+, T-, R+, R-, GND
Power	
Source	Terminal block
Input Voltage	12Vdc @ 100 mA
Meantime Between Failures (MTBF)	
MTBF	714354 hours
MTBF Calc. Method	MIL 217F Parts Count Reliability Prediction
Environmental	
Operating Temperature	0 to +70 °C (+32 to +185 °F)
Storage Temperature	-40 to +85 °C (-40 to +185 °F)
Operating Humidity	0 to 95%, non-condensing
Regulatory – Approvals / Standards / Directives	
FCC Part 15, EN 55032 Class A Emissions	
2011/65/EU amended by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS)	

Dimensions – BB-232CL9R



* INDICATES OPTIONAL THROUGH HOLE REPLACEMENT.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Interface Modules ***category:***

Click to view products by B+B SmartWorx ***manufacturer:***

Other Similar products are found below :

IFD8520 cPCI-3544 422CON ATX6022/14GP7 ATX6022/8 AX93221-24/48 FC6A-EXM2 OPT8AP-AE 96RMKVM-19V1C-A 60016-011 60016-014 60006-008 60011-075 HPCI-14S12U cBP-3208 cBP-3062A FAB205-6P5 ATX6022/6 60016-012 96RMKVM-17V1C-A PCE-DP10-00A1E MOS-1120Y-0201E 96RMLCD-17V1-A 96RMKVM-17V8C-A 60004-005 60016-017 60006-009 60016-035 60016-034 60016-031 60016-030 60016-026 60016-024 60016-018 60016-007 60016-005 60007-002 60006-010 AXX10GBTWLHW3 382-BBEH 555-BDCL K6CMISZBI52 426451401-3 60011-093 MIC-3620/3-BE MPCIE-UART-KIT02-R20 RSM232 PCIE-1680-AE BB-FOSTCDRI 73-544-002