

Terminal Port Adapters

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General Information

- [RJ45 to DB9 female kit](#)
- [RJ45 to DB9 male kit](#)
- [SFGate](#)

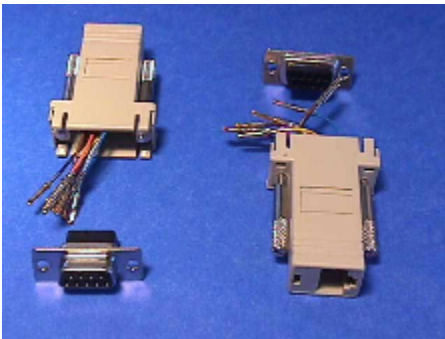


Figure 1. An RJ45 to DB9 adapter kit.

Information from Digi about cable adapters:http://www.digi.com/pdf/cable_adapter_reference.pdf

DB9S (Female) to RJ45, DTE, No Hardware Flow Control

Table 1. DTE Devices that require DB9S (Female) to RJ45 adapter without hardware flow control

Manufacturer	Model	Serial Settings
Motorola	MVME-6100	
MKS	937A Vacuum Gauge Controller	9600 8E1
MKS	PR4000	9600 701

Table 2. Serial cable pinouts for DB9-Female to RJ45.

RJ45 Signal	RJ45 Socket 8 Position	Adapter Wire Color	DB9 Socket 9 Position	DB9 Signal
TxD	4	Red	2	RxD
RxD	5	Green	3	TxD
SG	6	Yellow	5	SG

DB9P (Male) to RJ45, DTE, No Hardware Flow Control

Table 3. DTE Devices that require DB9P (Male) to RJ45 adapter without hardware flow control

Manufacturer	Model	Serial Settings
Gamma	SPC, MPC(e/q), and QPC Vacuum Pump Controllers	9600 8N1
Thermocon	HECR Chiller	9600 8N1

Table 4. Serial cable pinouts for DB9-Male to RJ45 (Gamma).

RJ45 Signal	RJ45 Socket 8 Position	Adapter Wire Color	DB9 Socket 9 Position	DB9 Signal
TxD	4	Red	2	RxD
RxD	5	Green	3	TxD

SG	6	Yellow	5	SG
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Table 4. DTE Devices that require DB9P (Male) to RJ45 adapter without hardware flow control

Manufacturer	Model	Serial Settings
Varian	V81 Turbo Pump Controller	9600 8N1
MKS	937(A/B)	9600 8E1
Coherent	Labmax-TOP	38400 8N1
Ophir	Centauri	115200 8N1

Table 4b Serial cable pinouts for DB9-Male to RJ45 (MKS 937B, Varian V81, Centauri, and Labmax-TOP). Digi part number 76000701, "TS DB9M Modem Adapter"

RJ45 Signal	RJ45 Socket 8 Position	Adapter Wire Color	DB9 Socket 9 Position	DB9 Signal
TxD	4	Red	3	RxD
RxD	5	Green	2	TxD
SG	6	Yellow	5	SG

DB9P (Male) to RJ45, DCE, No Hardware Flow Control

Table 5. DCE Devices that require DB9P (Male) to RJ45 adapter without hardware flow control

Manufacturer	Model	Serial Settings
Lakeshore	340 Temperature Controller	9600 8N1
Sigma	PAT-001	9600 8N1
Finger Lakes	CFW-1-5	19200 8N1
SLAC	Link Node	9600 8N1

Table 6. Serial cable pinouts for DB9-Male to RJ45. Digi part number 76000701, "TS DB9M Modem Adapter"

RJ45 Signal	RJ45 Socket 8 Position	Adapter Wire Color	DB9 Socket 9 Position	DB9 Signal
TxD	4	Red	3	TxD
RxD	5	Green	2	RxD
SG	6	Yellow	5	SG

DB9P (Male) to RJ45, DCE, With Hardware Flow Control

Table 5. DCE Devices that require DB9P (Male) to RJ45 adapter without hardware flow control

Manufacturer	Model	Serial Settings
Coherent	EPM2000 Power Meter	38400 8N1

Table 6. Serial cable pinouts for DB9-Male to RJ45. Digi part number 76000701, "TS DB9M Modem Adapter"

RJ45 Signal	RJ45 Socket 8 Position	Adapter Wire Color	DB9 Socket 9 Position	DB9 Signal
DCD	1	Blue	1	DCD
RTS	2	Orange	7	RTS
TxD	4	Red	3	TxD
RxD	5	Green	2	RxD

SG	6	Yellow	5	SG
CTS	7	Brown	8	CTS
DTR	8	Gray	4	DTR

DB25 (Male) to RJ45 adapter without hardware flow control

Table 7. DCE Devices that require DB25 (Male) to RJ45 adapter without hardware flow control

Manufacturer	Model	Serial Settings
SRS	830 Lock in Amplifier	9600 8N2
SRS	SR620 Time Interval Counter	9600 8N2

Table 8. Serial cable pinouts for DB25-Male to RJ45.

RJ45 Signal	RJ45 Socket 8 Position	Adapter Wire Color	DB25 Socket 25 Position	DB25 Signal
TxD	4	Red	2	TxD
RxD	5	Green	3	RxD
SG	6	Yellow	7	SG

The mapping below is as built in a working SR620 system. It has not been verified that the lines are used, so this may be incorrect. Optional hardware handshaking lines, add to the above:

RJ45 Signal	RJ45 Socket 8 position	Adapter Wire Color	DB25 Socket 25 position	DB25 Signal
CTS	7	Brown	5	CTS
DTR	8	Gray	20	DTR

Special Cable for Laser Phase IMS Controller

See [diagram](#)