DB, DW, OR PW PACKAGE
(TOP VIEW)

EN	1	20 PWRDOWN
C1+	2	19 V_CC
V+	3	18 GND
C1−	4	17 DOUT1
C2+	5	16 RIN1
C2−	6	15 ROUT1
V−	7	14 NC
DOUT2	8	13 DIN1
RIN2	9	12 DIN2
ROUT2	10	11 NC

NC – No internal connection

Dual Transmitter/Receiver RS-232 20-Pin SOIC Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOP20
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free RoHS
Lifecycle:	Active
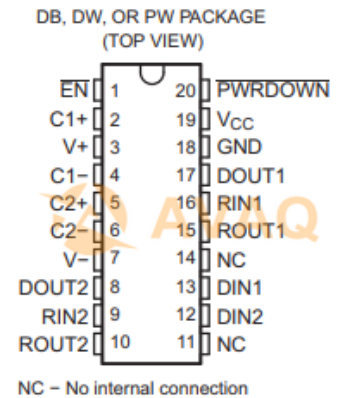
Images are for reference only

Inquiry

General Description

The MAX3222E consists of two line drivers, two line receivers, and a dual charge-pump circuit with ±15-kV ESD protection pin to pin (serial-port connection pins, including GND).

The device meets the requirements of TIA/EIA-232-F and provides the electrical interface between an asynchronous communication controller and the serial-port connector. The charge pump and four small external capacitors allow operation from a single 3-V to 5.5-V supply. The device operates at typical data signaling rates up to 500 kbit/s and a maximum of 30-V/μs driver output slew rate.

The MAX3222E can be placed in the power-down mode by setting the power-down (PWRDOWN) input low, which draws only 1 μA from the power supply. When the device is powered down, the receivers remain active while the drivers are placed in the high-impedance state. Also, during power down, the onboard charge pump is disabled; V+ is lowered to VCC, and V– is raised toward GND. Receiver outputs also can be placed in the high-impedance state by setting enable (EN) high.

Key Features

ESD Protection for RS-232 Bus Pins

Meets or Exceeds the Requirements of

TIA/EIA-232-F and ITU v.28 Standards

Operates With 3-V to 5.5-V VCC Supply

Operates up to 500 kbit/s

Two Drivers and Two Receivers

Low Standby Current . . . 1 µA Typ

External Capacitors . . . 4 × 0.1 µF

Accepts 5-V Logic Input With 3.3-V Supply

Alternative High-Speed Pin-Compatible Device (1 Mbit/s) for SNx5C3222E
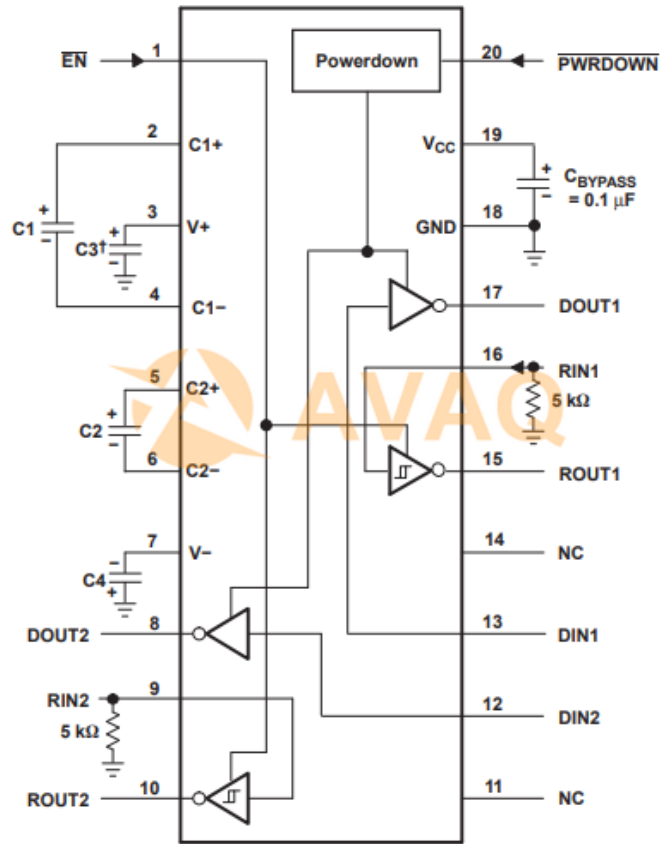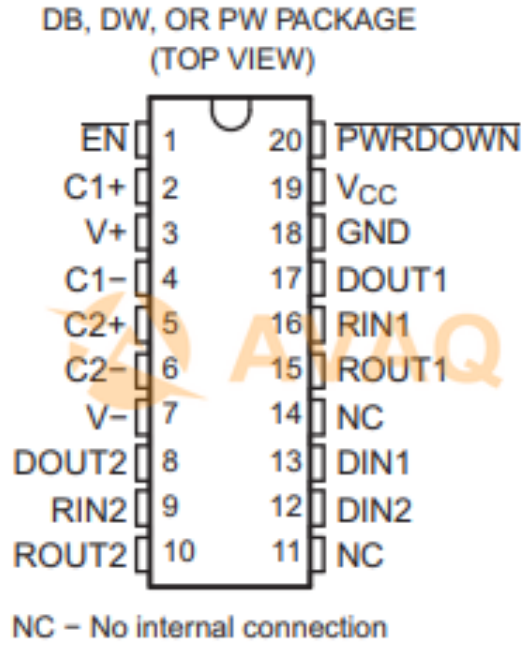
APPLICATIONS

Battery-Powered Systems

PDAs

Notebooks

Laptops

Palmtop PCs

Hand-Held Equipment

DB, DW, OR PW PACKAGE
(TOP VIEW)

EN	1		20	PWRDOWN
C1+	2		19	V$_{CC}$
V+	3		18	GND
C1−	4		17	DOUT1
C2+	5		16	RIN1
C2−	6		15	ROUT1
V−	7		14	NC
DOUT2	8		13	DIN1
RIN2	9		12	DIN2
ROUT2	10		11	NC

NC − No internal connection

APPLICATION INFORMATION

Recommended For You

MAX3223MDBREP

Texas Instruments, Inc

SSOP20

MAX3232EIPWRQ1

Texas Instruments, Inc

TSSOP16

MAX232N

Texas Instruments, Inc

DIP-16

MAX3221ECDBR

Texas Instruments, Inc

SSOP16

MAX3222ECPWR

Texas Instruments, Inc

TSSOP20

MAX3222IPWR

Texas Instruments, Inc

TSSOP20

MAX3223IDW

Texas Instruments, Inc

SOP20

MAX3243IPW

Texas Instruments, Inc

TSSOP

MAX3221MDBREP

Texas Instruments, Inc

SSOP-16

MAX208CDB

Texas Instruments, Inc

SSOP

MAX232ECN

Texas Instruments, Inc

DIP-16

MAX232IDW

Texas Instruments, Inc

SOP16

AVAQ SEMICONDUCTOR CO., LIMITED

Email: sales@avaq.com

MAX3232MDBREP	DS90LV028AQMA/NOPB	MAX232EID
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
SSOP16	SOP-8	SOP16