automotive Touch Screen Controllers
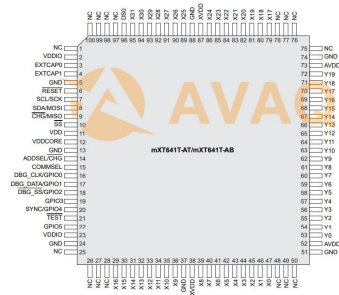
Manufacturer:	Microchip Technology, Inc
Package/Case:	TQFP100
Product Type:	Drivers
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

In ProductionThe recommended alternative touch controller is ATMXT640U.The mXT641T uses the latest capacitive touch technologies thatMicrochip has designed for the highest-performance super phones andtablets. With a revolutionary adaptive-sensing architecture thatfeatures both mutual- and self-capacitance, it enables the highestperformance with the industry's lowest power consumption.With 640 nodes, the mXT641T touchscreen controller supports up to 8inches for Android tablets, 7 inches for Windows 8 mobile devices, andup to 6.2 inches for devices with 1.0mm passive stylus.
The mXT641T touchscreen controller also supports 1 finger Hover tracking at up 20mm height.
Please contact your local Microchip sales office for pricing information and to place an order.

Key Features

Fully automotive-qualified (Grade 2), operating within the temperature range of -40 to +105 deg C

Supports up to 16 concurrent touches in real time with touch size reporting

Communication via a serial interface (I2C or SPI)

Integrated voltage doubler option to increase the signal to noise ratio (SNR)

Adaptive Sensing (Self and Mutual cap)

Supports thick glove (5mm) touch

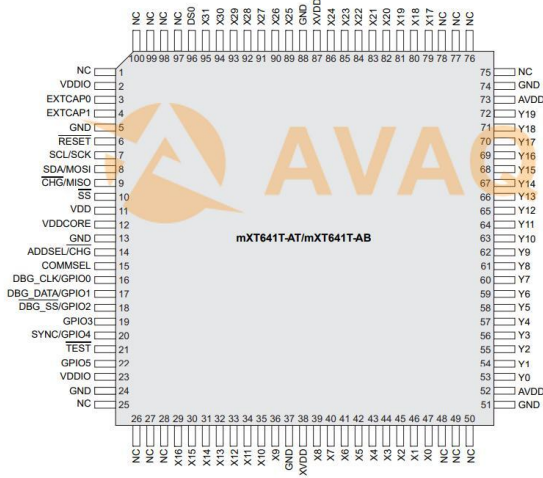Support thick lenses (up to 3mm plastic)

Superior moisture performance
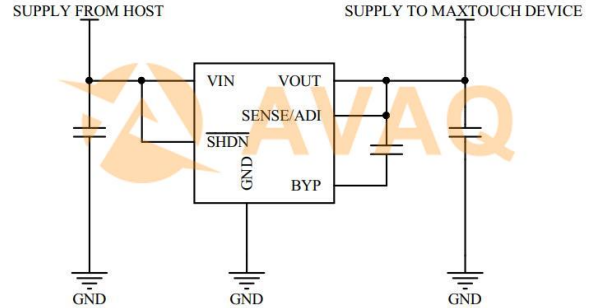
Hover tracking up to 20mm

Package: TQFP100

PIN CONFIGURATION

100-pin TQFP

mXT641T-AT/mXT641T-AB

EXAMPLE LDO CIRCUIT

SUPPLY FROM HOST   SUPPLY TO MAXTOUCH DEVICE

VIN   VOUT
SENSE/ADI
SHDN
GND   BYP

GND   GND   GND

Recommended For You