

Main Display

Mobile Display

Mobile Touch

maXTouch® On-Cell & Out-Cell Touch Controller IC

Mobile Driver

TFT Display Driver IC

In-Cell Touch Display Driver IC (TDDI)

STN Display Driver IC

Mobile Interface

MIPI Bridge IC

Display Controller IC

Large Display

Source Display Driver IC

Gate Display Driver IC

> Products / Main Display / **Mobile Display**

Mobile Touch

/ maXTouch® On-Cell & Out-Cell Touch Controller IC / mXT640U /

mXT640U

► Introduction

The mXT640U is one of our newest additions to the maXTouch® U Series. The mXT640U provides high Signal-to-Noise Ratio (SNR) and low power consumption. With high SNR and advanced sensing scheme, the mXT640U supports hovering and proximity function. The mXT640U's low idle current enables extended battery life for smartphones, while enabling intelligent wakeup gestures, including character recognitions. The mXT640U also supports single-layer touch applications, with a maximum screen size of up to 6.5", and it allows very slim edge for large-size smart phone applications.

► Features

- 32X by 20Y - 640 Nodes for 5.0" - 6.0" high-end smartphones
- Extra 3 touch buttons supported in addition to 640 nodes via Gkeys
- Integrated Tripler - up to 9.9V for Tx channels (3X AVDD)

Touch Performance

- Thin stackup support – 0.4mm Cover Lens
- Superior moisture performance
- No false touch with water drop, 2-finger-touch with water drop
- Up to 2.0mm multi-finger glove touch
- Up to 30mm large finger touch detection
- Low-power wakeup gestures
- Smart Edge suppression for narrow and curved borders

Force Sensor Support

- Capacitive and resistive sensors, up to 6 single-ended channels

Packaging

- 6mm x 6mm x 0.6mm 88-UFBGA
- 6mm x 6mm x 0.45mm 88-X1FBGA

► Ordering Information

| Ordering Part No. | Channel | Nodes | Package | Remark |
|--------------------------------------|---------|-------|----------------|-------------------------------|
| ATMXT640U-CCUR (in tapes & reels) | 32X 20Y | 640 | 88 Ball UFBGA | 6 x 6 x 0.6mm 0.5mm pitch |
| ATMXT640U-C4UR (in tapes & reels) | 32X 20Y | 640 | 88 Ball X1FBGA | 6 x 6 x 0.45mm 0.5mm pitch |

Contact our sales representative for more information:

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