

## VCX Family Introduction

VCX is the industry's first low voltage logic family optimized for 2.5V performance. VCX provides the fastest 3.3V CMOS performance and the fastest 2.5V performance available. VCX is specified from 1.65V–3.6V, offering a broad operating range and provides over voltage tolerance to 3.6V for mixed voltage operation. VCX is ideal for high speed on-board buffering applications.

Features	Benefits
Highest speed performance (2.5 ns max delay at 3.3V, 3.2 ns max. delay at 2.5V).	High speed for on-board buffering applications.
Guaranteed AC and DC specifications over 1.65V–3.6V $V_{CC}$ supply voltage operation.	Provides lower voltage operation without moving to a new family.
Very low static and dynamic power.	Saves power, extends battery life.
Low noise.	Low ground bounce, overshoot, undershoot, and EMI.
Balanced $\pm 24$ mA output drive.	Drives transmission lines down to 50 $\Omega$ .
Power up/down high impedance inputs and outputs.	Facilitates power management and live insertion.
16/18/20-bit functions.	Wide bit widths for high speed on-board buffering applications.