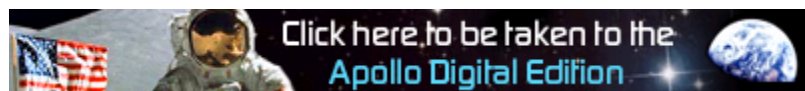


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OneChip readies EPON transceivers

[John Walko](#)
[EE Times Europe](#)

(09/07/2009 10:56 AM EDT)

LONDON — Photonics chip startup OneChip Photonics Inc. (Ottawa, Canada) has started sampling to selected customers and potential partners its Ethernet Passive Optical Network (EPON) transceivers, targeting optical line terminals and optical network units.

The company's first PICs for Fibre-To-The Premises (TFFP) applications are being demonstrated at the China International Optoelectronic expo this week.

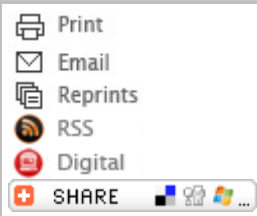
The PON transceivers, built in indium phosphide (InP), integrate multiple active and passive components into a single chip and should be available in volume early next year.

Separately, OneChip said the device will be made for it by Sanmina-SCI, the San-Jose, California based EMS that earlier this year acquired JDS Uniphase's optical facility in Shenzhen, China.

OneChip suggests it can lower the price of commodity EPON transceivers by 20 to 25 percent using its special monolithic integration technology. The PICs are designed for automated mounting onto a silicon optical bench, without requiring active alignment, using industry-standard, automated assembly processes resulting in consistently high yields of good devices, says the company.

All active and passive components of the chip including the Distributed-Feedback (DFB) laser, Optically Pre-Amplified Detector (OPAD), Wavelength Splitter (WS), Spot-Size Converter (SSC), and various elements of passive waveguide circuitry are integrated in one epitaxial growth step, without re-growth or post-growth modification of the epitaxial material.

"OneChip's new EPON transceivers are the first fully integrated optical access transceivers on the market," said Jim Hjartarson, CEO of



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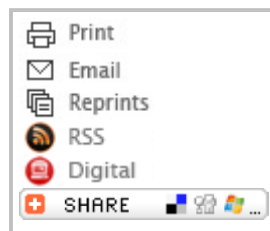
OneChip Photonics. "They will give system providers and carriers the ability to significantly lower the cost and boost the performance of their FTTP networks, while meeting business and consumer demand for high-bandwidth voice, data and video services."

OneChip is also developing OLT and ONU transceivers for Gigabit PON (GPON) networks, but did not say when these would be sampling.

Commenting on the availability of the EPN transceivers, Sterling Perrin, senior analyst at *Heavy Reading* said: "In recent years, PICs have transformed long-haul optical networks, but Heavy Reading has long felt that PICs also have a tremendous role to play in the future of fiber access networks, where per-subscriber costs are so crucial to operator success."

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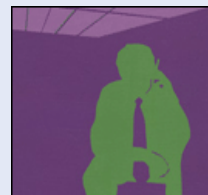
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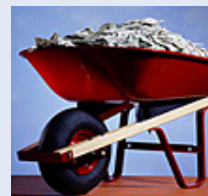
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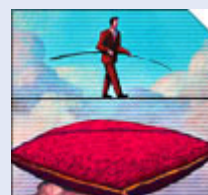
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