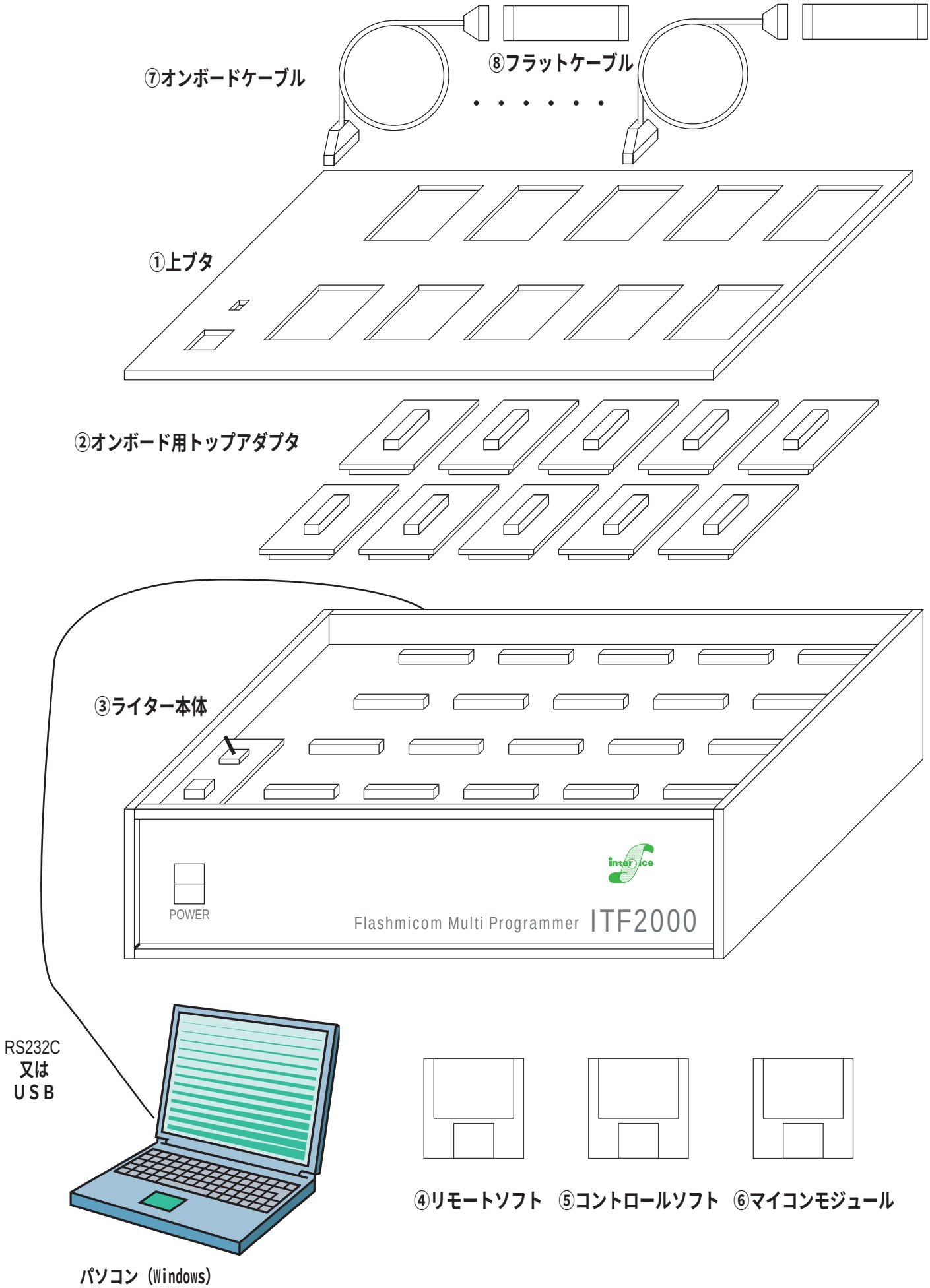オンボード書き込み構成